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No.	Match					

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Query Match 100.0%; Score 3409.6; DB 6; Length 3410; Best Local Similarity 100.0%; Pred. No. 0; Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
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REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
AUTHORS	Xu, J., Dillon, D.C., Mitcham, J.L., Harlocker, S.L., Jiang, Y., Reed, S.G., Kalos, M.D., Retter, M.W., Stolk, J.A., Day, C.H., Skeiky, Y.A. and Wang, A.		
TITLE	Compositions and methods for the therapy and diagnosis of prostate cancer		
JOURNAL	Patent: WO 0134802-A 110 17-MAY-2001;		
FEATURES	CORIXA CORPORATION (US)		
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DEFINITION Sequence 110 from Patent WO0151633.
ACCESSION AX200480
VERSION AX200480.1 GI:15390293
KEYWORDS human.
SOURCE Homo sapiens
ORGANISM
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 3410)
AUTHORS Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,
Reed,S.G., Kalos,M.D., Fanger,G.R., Day,C.H., Retter,M.W.,
Stolk,J.A., Skeiky,Y.A., Wang,A. and Mesgher,M.J.
Compositions and methods for the therapy and diagnosis of prostate

JOURNAL cancer
Patent: WO 0151633-A 110 19-JUL-2001;
CORIXA CORPORATION (US)
FEATURES Location/Qualifiers
source i..3410
/organism="Homo sapiens"
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 5

AY033593

LOCUS

DEFINITION

ACCESSION

VERSION

AY033593 3410 bp mRNA linear PRI 23-MAY-2001
Homo sapiens prostate mRNA, complete cds.
AY033593
AY033593.1 GI:14192791

KEYWORDS human.
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
REFERENCE 1 (bases 1 to 3410)
AUTHORS Xu, J., Kalos, M., Stolk, J.A., Zasloff, E.J., Zhang, X., Houghton, R.L., Filho, A.M., Nolasco, M., Badaro, R. and Reed, S.G.
TITLE Identification and characterization of prostate, a novel prostate-specific protein
JOURNAL Cancer Res. 61 (4), 1563-1568 (2001)
MEDLINE 21139094
PUBMED 11245466
REFERENCE 2 (bases 1 to 3410)
AUTHORS Xu, J., Kalos, M., Stolk, J.A., Zasloff, E.J., Zhang, X., Houghton, R.L., Filho, A.M., Nolasco, M., Badaro, R. and Reed, S.G.
TITLE Direct Submission
JOURNAL Submitted (27-APR-2001) Antigen Discovery, Corixa Corporation, 1124 Columbia Street, Seattle, WA 98104, USA
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RESULT 6

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DEFINITION Sequence 1 from Patent WO0181577.
ACCESSION AX327336
VERSION AX327336.1 GI:18097882
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ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (sites)
REFERENCE Lau, T., Lin, R. J., Parkes, D., Parry, G., Schneider, D. W.,
AUTHORS Steinbrecher, R., van Heuit, P. T. and Wu, J.
TITLE Dna encoding the prost 03 polypeptide

JOURNAL Patent: WO 0181577-A 1 01-NOV-2001;
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the DraIII sites can be used to isolate the cDNA insert. Libraries were constructed by oligo-capping method (Sugano et al., , Institute of Medical Science, University of Tokyo).

Custom primer used for sequencing
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 Location/Qualifiers

FEATURES

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ORIGIN

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REFERENCE	1 (bases 1 to 4034)		
AUTHORS	Xu, J., Dillon, D.C., Mitcham, J.L., Harlocker, S.L., Jiang, Y., Reed, S.G., Kalos, M.D., Fanger, G.R., Day, C.H., Retter, M.W., Stolk, J.A., Skelky, Y.A., Wang, A. and Mesgher, M.J.		
TITLE	Compositions and methods for the therapy and diagnosis of prostate cancer		
JOURNAL	Patent: WO 0151633-A 625 19-JUL-2001;		
FEATURES	CORIXA CORPORATION (US)		
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75.88; Score 2585.4; DB 6; Length 4034;

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 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (sites)
 Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,
 Kalos,M.D., Fanger,G.R., Retter,M.W., Stolk,J.A., Day,C.H.,
 Vedvick,T.S., Carter,D., Li,S.X., Wang,A., Skeiky,Y.A., Hepler,W.T.
 and Henderson,R.A.

TITLE Compositions and methods for the therapy and diagnosis of prostate cancer

JOURNAL Patent: WO 0173032-A 704 04-OCT-2001;

CORIXA CORPORATION (US)

Location/Qualifiers

FEATURES 1. .4034

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REFERENCE 1 (sites)
AUTHORS Osada,N., Hida,M., Kusuda,J., Tanuma,R., Iseki,K., Hirai,M., Terao,K., Suzuki,Y., Sugano,S. and Hashimoto,K.
TITLE Isolation of full-length cDNA clones from macaque brain cDNA libraries
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 2917)
AUTHORS Hashimoto,K., Osada,N., Hida,M., Kusuda,J. and Sugano,S.
TITLE Direct Submission
JOURNAL Submitted (11-JUN-2001) Katsuyuki Hashimoto, National Institute of Infectious Diseases, Division of Genetic Resources; 23-1, Toyama 1-chome, Shinjuku-ku, Tokyo 162-8640, Japan
 (E-mail:khashi@nih.go.jp, URL:http://www.nih.go.jp/yoken/genebank/, Tel:81-3-5285-1111(ex.2120), Fax:81-3-5285-1181)
COMMENT Lab host: TOP10
 Vector: pME18S-FL3 (Acc.No. AB009864)
 R. Site1: DraIII (CAGCTGTG)
 R. Site2: DraIII (CAGCATGTG)
 Description: 1st strand cDNA was primed with an oligo(dT) primer [AAGGCGCTTTTCTTTTCTTTT]; double-stranded cDNA was synthesized using specific 5' and 3' primers and amplified by PCR. The PCR product was digested with SfiI and size selection was performed to exclude fragments <1.5kb. The SfiI-digested PCR product was cloned into distinct DraIII sites of pME18S-FL3. XhoI sites just outside the DraIII sites can be used to isolate the cDNA insert. Libraries were constructed by oligo-capping method
 (Sugano et al., Institute of Medical Science, University of Tokyo).
 Custom primer used for sequencing
 (5' end primer [CTCTGCTCTAAAGCTGG];
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1 (sites)
Xu, J., Dillon, D.C., Mitcham, J.L., Harlocker, S.L., Jiang, Y.,
Kados, M.D., Fanger, G.R., Retter, M.W., Stolk, J.A., Day, C.H.,
Vedvick, T.S., Carter, D., Li, S.X., Wang, A., Skeiky, Y.A., Hepler, W.T.
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Compositions and methods for the therapy and diagnosis of prostate
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REFERENCE

AUTHORS

TITLE

JOURNAL

FEATURES

source

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REFERENCE	1 (bases 1 to 4894)
AUTHORS	Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y., Reed,S.G., Kalos,M.D., Fanger,G.R., Day,C.H., Retter,M.W., Stolk,J.A., Skeiky,Y.A., Wang,A. and Meagher,M.J
TITLE	Compositions and methods for the therapy and diagnosis of prostate cancer
JOURNAL	Patent: WO 0151633-A 623 19-JUL-2001;
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VERSION AX267728.1 GI:16516400
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS Xu,J., Dillon,D.C., Mitcham,J.L., Harlocker,S.L., Jiang,Y.,
Kalos,M.D., Fanger,G.R., Retter,M., Stolk,J.A., Day,C.H.,
Vedvick,T.S., Carter,D., Li,S.X., Wang,A., Skeiky,Y.A., Hepler,W.T.
and Henderson,R.A.
TITILE Compositions and methods for the therapy and diagnosis of prostate
cancer
JOURNAL Patent: WO 0173032-A 702 04-OCT-2001;


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CORIXA CORPORATION (US)
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Db 4371 TCCAAAATGATAATTCAAAATGCTGTTACCCAAAGTTAGGGTGTTCGAAGGAAGGTAGAG 4430
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RESULT 15
AR112295
LOCUS AR112295 2152 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 16 from patent US 6130043.
ACCESSION AR112295
VERSION AR112295.1 GI:14092195
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 2152)
AUTHORS Billing-Medel,P.A., Cohen,M., Colpitts,T.L., Friedman,P.N.,
Gordon,J., Granados,E.N., Hodges,S.C., Klass,M.R., Kratochvil,J.D.,
Roberts-Rapp,L., Russell,J.C., Stroupe,S.D. and Yu,H.
Reagents and methods useful for detecting diseases of the prostate
Patent: US 6130043-A 16 10-OCT-2000;
FEATURES
Location/Qualifiers
source
I. .2152
BASE COUNT 419 a 622 c 569 g 542 t
ORIGIN

Query Match 62.7%; Score 2136.4; DB 6; Length 2152;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2149; Conservative 0; Mismatches 1; Indels 2; Gaps 1;

Qy 1177 gggcgtgtaccagggcgtcccagagctgagccgggaccagggccggagacactatga 1236
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QY 2229 gaatgcgggactctgcaggtgattaccacaggtcctcaggggttaacagctagctcctcagt 2288
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Db 2881 aagcctttcttatatgttttaaaa 2904

RESULT 15
AAS64038
ID AAS64038 standard; cDNA; 4894 BP.
XX
AC AAS64038;
XX
DT 29-JAN-2002 (first entry)
XX
DE Human prostate cDNA P553S splice variant #1.
XX
KW Human; prostate cancer; ss; cytostatic; immunostimulant; tumour.
XX
OS Homo sapiens.
XX
PN WO200173032-A2.
XX
PD 04-OCT-2001.
XX
PF 27-MAR-2001; 2001WO-US09919.
XX
PR 27-MAR-2000; 2000US-0536857.
PR 09-MAY-2000; 2000US-0568100.
PR 12-MAY-2000; 2000US-0570737.
PR 13-JUN-2000; 2000US-0593793.
PR 27-JUN-2000; 2000US-0605783.
PR 10-AUG-2000; 2000US-0651236.
PR 29-AUG-2000; 2000US-0651236.
PR 06-SEP-2000; 2000US-0657279.
PR 02-OCT-2000; 2000US-0679426.
PR 10-OCT-2000; 2000US-0685166.
XX
PA (CORI-) CORIXA CORP.
XX
PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;
PI Fanger GR, Retter MW, Stolk JA, Day CH, Vedvick TS, Carter D;
PI Li SX, Wang A, Skeiky YAW, Hepler WT, Henderson RA;
XX
DR WPI; 2001-639232/73.
DR N-PSDB; AAU69874, AAU69875.
XX
PT New human prostate-specific polypeptides and polynucleotides useful for
PT the diagnosis and treatment of cancer, especially prostate cancer -
XX
PS Claim 1; Page 480-482; 579pp; English.
XX
CC The invention relates to isolated prostate-specific
CC polynucleotides, polypeptides, fusion proteins of the polypeptides,
CC antibodies raised against the polypeptides (or antigenic epitopes
CC derived from them) and antigen-presenting cells expressing the
CC polypeptides. The antibodies are useful for detecting the presence of
CC cancer, especially prostate cancer. The polypeptides, polynucleotides and
CC the antigen-presenting cells are useful for stimulating and/or expanding
CC T cells specific for a tumour protein, and for inhibiting the development
CC of cancer especially prostate cancer. Compositions comprising the
CC polynucleotide and/or polypeptide are useful for stimulating an immune
CC response, and for treating cancer. The oligonucleotide is useful for
CC detecting cancer. The present sequence is a prostate specific
CC polynucleotide of the invention.
XX
SQ Sequence 4894 BP; 928 A; 1448 C; 1354 G; 1163 T; 1 other;
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Query Match 62.8%; Score 2142.8; DB 22; Length 4894;
Best Local Similarity 80.1%; Pred. No. 0;
Matches 2872; Conservative 1; Mismatches 3; Indels 708; Gaps 2;

QY 455 ggcattggtccagtgctggcctgtgtgtcccgctcctagctcagcagtgaccac 514
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PT diagnosing, monitoring and treating prostate cancer in a patient and
 PT for use in vaccines -
 XX
 FS Claim 1; Page 459-460; 543pp; English.
 XX The present invention describes polynucleotide sequences (I) which encode
 CC prostate-specific proteins (II). (I) and (II) have cytostatic activity,
 CC and can be used in vaccine production and gene therapy. (I), (II),
 CC antibodies to (II), fusion proteins comprising (II), and isolated
 CC T cells prepared using (I) or (II) are used treat cancer in a patient.
 CC (I) and the antibodies are also used in the detection of cancer in a
 CC patient. The cancer that is diagnosed or treated is particularly
 CC prostate cancer. (I) and (II) can be used in vaccines. The antibodies or
 CC (I) can be used for monitoring the progression of cancer in a patient.
 CC (I) and (II) can also be used to improve diagnostic and therapeutic
 CC methods for prostate cancer. They can indicate the level of metastasis
 CC as well as the prostate volume. AAH93357 to AAH93944 and AAH01115 to
 CC AAH01318 represent polynucleotide and amino acid sequences used in the
 CC exemplification of the present invention.
 XX
 XX Sequence 2904 BP; 542 A; 875 C; 773 G; 714 T; 0 other;

Query Match 64.48; Score 2196.4; DB 22; Length 2904;
 Best Local Similarity 88.2%; Pred. No. 0;
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 Db 361 atggcactcagacctcagcgtgtttacacgatttcgtggcgagggcgtgtaccag 420
 QY 1190 ggcgtgccacagtcagccgggacccagggccgggagacactatgatgaa----- 1240
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RESULT 12

AAH93868
ID AAH93868 standard; cDNA; 4034 BP.

XX AC AAH93868;

XX DX 04-OCT-2001 (first entry)

XX DE P553S cDNA splice variant P553S-10.

XX KW Human; prostate cancer; prostate-specific; diagnosis; vaccine; cytostatic; gene therapy; metastasis; ss.

XX OS Homo sapiens.

XX PN W0200151633-A2.

XX PD 19-JUL-2001.

XX PF 16-JAN-2001; 2001WO-US01574.

XX PR 14-JAN-2000; 2000US-0483672.

XX PA (CORI-) CORIXA CORP.

XX PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Reed SG;

XX PI Kalos MD, Fanger GR, Day CH, Retter MW, Stolk JA, Skeiky YAW;

XX PI Wang A, Meagher MJ;

XX DX WPI; 2001-425873/45.

XX PT New polynucleotide encoding a prostate-specific protein, for diagnosing, monitoring and treating prostate cancer in a patient and for use in vaccines -

XX PS Claim 1; Page 460-461; 543pp; English.

XX CC The present invention describes polynucleotide sequences (I) which encode prostate-specific proteins (II). (I) and (II) have cytostatic activity, and can be used in vaccine production and gene therapy. (I), (II), antibodies to (II), fusion proteins comprising (II), and isolated T cells prepared using (I) or (II) are used treat cancer in a patient.

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QY 1144 ctccagctgtttacaggaattctgtggcgagagcgtgtacaggcggtgccagagc 1203
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Db 1141 ctccagctgtttacaggaattctgtggcgagagcgtgtacaggcggtgccagagc 1200
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QY 1204 tgagcggggcaccagagcccgagacactatgatga----- 1239
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Db 1201 tgagcggggcaccagagcccgagacactatgatgaaggttaaggttaagccttgagcagcagcag 1260
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QY 1240 ----- 1239
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Db 1261 aggtggtgtgggagccgcacacagagacactcggggtgtgtctgggtggtgcc 1320
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QY 1240 ----- 1239
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Db 1321 tctccatctctggcccgaacttctctgtcaggaaaagtggggatggaccccatctgcataca 1380
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QY 1240 ----- 1239
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Db 1381 cggcttctcatggtgtggaacatctctgtctgcggtttcaggaaagcctctggtgctc 1440
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QY 1240 ----- 1239
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Db 1441 taggagctctgacagagtcgtgtgcccagtttgacagaagaaagcgaggtatttcaa 1500
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QY 1240 ----- 1239
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Db 1501 agtctagaggagtgaggaggttaaggttgatttcagatctgcctggtttccagcgcgcag 1560
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QY 1240 ----- 1239
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Db 1561 tgtgccctctgtctcccccacacactttccaaataatctccacgcgcctccagctcagg 1620
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QY 1240 ----- 1239
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Db 1621 cgtcctagaagcgtcttgaaagcctatggccagctgtcttttgtttccctctcaccgcct 1680
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QY 1240 ----- 1239
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Db 1801 gaaagggaaggggtgctgggggagcagggtgtgtccacagcaggtctcgtgcagcaggttac 1860
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QY 1240 ----- 1239
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Db 1861 ctgtggttccgcctctctcatctccctgagactgtccgaccttccctcccaggctctgt 1920
|||||
QY 1240 -----aggcgttcggatgggcagcctggggtcttccctgagcgt 1277
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Db 1921 ctgagggccctctccctctgcagggttcggatgggcagcctggggtgttccctgagcgt 1980
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QY 1278 ggcacatctccctggtctctctctctggtcatggacgcggtggtgcagcagattcgcgcactc 1337
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QY 1338 gacagctctattggccagctgtggcagcttccctgtggtcctggtgccaatgcctgt 1397
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QY 1458 tgcagatcctgcctacacactggcctcctctacacgcggagagcaggtgttctctgc 1517
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Db 2161 tgcagatcctgcctacacactggcctcctctacacgcggagagcaggtgttctctgc 2220
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Db 2221 ccaaataccgggggacactggaggtgctagcagtgagacacagcctgatgacagcttcc 2280
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QY 1698 tgggtggtgggtgagccacccaggccaggggtgttccgggcgggggacatctgcctggacc 1757
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QY 1758 tgcacatctcgtgatagtccttctgtctccaggtggcccaatccctctgttatgggct 1817
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QY 1818 ccatgttccagctcagcagctgtgtcactgctatatgtgtgtcgcgcagcagcctggtc 1877
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QY	2521	gatccaccccccctttacotctttttatcaggatgtggcctgttggtcctctgttgcacatca	2580
Db	2521	gatccaccccccctttacotctttttatcaggatgtggcctgttggtcctctgttgcacatca	2580
QY	2581	cagacagacaggcatttaataatttaacottatttatttaacaaagtagaaggaatccat	2640
Db	2581	cagacagacaggcatttaataatttaacottatttatttaacaaagtagaaggaatccat	2640
QY	2641	tgtagcttttctgttgggtgtctaataatttgggtagggtgggggataccccacaataca	2700
Db	2641	tgtagcttttctgttgggtgtctaataatttgggtagggtgggggataccccacaataca	2700
QY	2701	ggtcccttgagatagctgggtcaattggggtgatcatctgccagaatctctctctctggggt	2760
Db	2701	ggtcccttgagatagctgggtcaattggggtgatcatctgccagaatctctctctctggggt	2760
QY	2761	ctggcccccccaaaatgcctaaacccaggaccttgaaattctactcatcccaaatgataat	2820
Db	2761	ctggcccccccaaaatgcctaaacccaggaccttgaaattctactcatcccaaatgataat	2820
QY	2821	tcacaaatgctgttaccacagggttaggggtgttgaaaggaaagttagagggtgggggttcagggt	2880
Db	2821	tcacaaatgctgttaccacagggttaggggtgttgaaaggaaagttagagggtgggggttcagggt	2880
QY	2881	ctcaacggtctccctaaaccaacacccctctctctgtggccagacctgttccccccacttcca	2940
Db	2881	ctcaacggtctccctaaaccaacacccctctctctgtggccagacctgttccccccacttcca	2940
QY	2941	ctccctctactctctctaggactgggtgtgtgaaggaaagttagaacgtgcccaaaattcccctacc	3000
Db	2941	ctccctctactctctctaggactgggtgtgtgaaggaaagttagaacgtgcccaaaattcccctacc	3000
QY	3001	cccaactttccctaccccccaactttcccaacagctccacaaacctgtttggagctact	3060
Db	3001	cccaactttccctaccccccaactttcccaacagctccacaaacctgtttggagctact	3060
QY	3061	gcaggaccagaagcacaaagtgcgggtttcccaagccttgttccatctcagccccccagagt	3120
Db	3061	gcaggaccagaagcacaaagtgcgggtttcccaagccttgttccatctcagccccccagagt	3120
QY	3121	atatctgtcttggggaatctcacacagaaactcaggagcacccctgcctgagctaaagg	3180
Db	3121	atatctgtcttggggaatctcacacagaaactcaggagcacccctgcctgagctaaagg	3180
QY	3181	gaggtcttatctctca-ggggggggtttaagtgcogtttgcgaataatgtcgtctatttat	3239
Db	3181	gaggtcttatctctcaggggggggtttaagtgcogtttgcgaataatgtcgtctatttat	3240
QY	3240	ttagccgggtgaatatattttactactgaagtgaagaacaacagataatgtttatggtgac	3299
Db	3241	ttagccgggtgaatatattttactactgaagtgaagaacaacagataatgtttatggtgac	3300
QY	3300	aaaattaaagggtttcttat 3319	
Db	3301	aaaattaaagggtttcttat 3320	

RESULT 11
AAS64040
ID AAS64040 standard; cDNA; 4034 BP.

XX	
XX	
XX	and 60740 Standard; CSM; 4034 St.
AC	AAS64040;
XX	
DT	29-JAN-2002 (first entry)
XX	
DE	Human prostate cDNA P553S splice variant #3.
XX	
KW	Human; prostate cancer; ss; cytostatic; immunostimulant; tumour.
XX	
OS	Homo sapiens.
XX	
PN	WO200173032-A2.

XX	04-OCT-2001.	
PD		
XX	27-MAR-2001; 2001WO-US09919.	
PF		
XX		
XX	27-MAR-2000; 2000US-0536857.	
PR		
XX	09-MAY-2000; 2000US-0568100.	
PR		
XX	12-MAY-2000; 2000US-0570737.	
PR		
XX	13-JUN-2000; 2000US-0593793.	
PR		
XX	27-JUN-2000; 2000US-0605783.	
PR		
XX	10-AUG-2000; 2000US-0636215.	
PR		
XX	29-AUG-2000; 2000US-0651236.	
PR		
XX	06-SEP-2000; 2000US-0657279.	
PR		
XX	02-OCT-2000; 2000US-0679426.	
PR		
XX	10-OCT-2000; 2000US-0685166.	
PR		
XX	(CORI-) CORIXA CORP.	
PA		
XX	Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Kalos MD;	
PI	Fanger GR, Retter MW, Stolk JA, Day CH, Vedvick TS, Carter D;	
PI	Li SX, Wang A, Skeiky YAW, Hepler WT, Henderson RA;	
XX		
XX	WPI; 2001-639232/73.	
DR		
XX	New human prostate-specific polypeptides and polynucleotides useful for	
PT	the diagnosis and treatment of cancer, especially prostate cancer -	
XX		
XX	Claim 1; Page 483-484; 579pp; English.	
XX		
XX	The invention relates to isolated prostate-specific	
CC	polynucleotides, polypeptides, fusion proteins of the polypeptides,	
CC	antibodies raised against the polypeptides (or antigenic epitopes	
CC	derived from them) and antigen-presenting cells expressing the	
CC	polypeptides. The antibodies are useful for detecting the presence of	
CC	cancer, especially prostate cancer. The polypeptides, polynucleotides and	
CC	the antigen-presenting cells are useful for stimulating and/or expanding	
CC	T cells specific for a tumour protein, and for inhibiting the development	
CC	of cancer especially prostate cancer. Compositions comprising the	
CC	polynucleotide and/or polypeptide are useful for stimulating an immune	
CC	response, and for treating cancer. The oligonucleotide is useful for	
CC	detecting cancer. The present sequence is a prostate specific	
CC	polynucleotide of the invention.	
XX		
XX	Sequence 4034 BP: 721 A; 1226 C; 1141 G; 946 T; 0 other;	

Query Match 75.8%; Score 2585.4; DB 22; Length 4034;
Best Local Similarity 82.4%; Pred. No. 0;
Matches 3325; Conservative 0; Mismatches 1; Indels 709; Gaps 3;

Qy	4	aaccagcctgcacgcgtggtctccgggtgacagccgcgcctcggccagagatctgaatg	63
Db	1	aaccagcctgcacgcgtggtctccgggtgacagccgcgcctcggccagagatctgaatg	60
Qy	64	atgagacgtgtccccaactgaggtgccccacagcagcaggtgtgtgagcatggcgctgagaag	123
Db	61	atgagacgtgtccccaactgaggtgccccacagcagcaggtgtgtgagcatggcgctgagaag	120
Qy	124	ctgaccggcaccaaaagggtggcagaaatggggcctggctgattctcaggcaggttggc	183
Db	121	ctgaccggcaccaaaagggtggcagaaatggggcctggctgattctcaggcaggttggc	180
Qy	184	ggcagcaaggagagagggccgcagctctgtgagcagagccgagacgaagcaggttcttgag	243
Db	181	ggcagcaaggagagagggccgcagctctgtgagcagagccgagacgaagcaggttcttgag	240
Qy	244	tgcctgaacggcccccctgagccctaccgcctggcccactatgtccagagagccttgaggt	303
Db	241	tgcctgaacggcccccctgagccctaccgcctggcccactatgtccagagagccttgaggt	300
Qy	304	gagccgctgtcggcaccggaaagccagctcttgtgtccaacctgtcaaccttgg	363
Db	301	gagccgctgtcggcaccggaaagccagctcttgtgtccaacctgtcaaccttgg	360

Db	301	t	g	a	g	c	c	c	t	g	t	g	c	g	a	c	c	g	a	a	g	c	c	a	g	c	t	g	t	g	c	a	a	c	c	t	g	360		
Qy	363	g	c	t	g	a	g	t	g	t	t	t	g	c	g	c	a	g	c	a	t	a	c	a	t	a	t	g	c	g	c	c	t	c	t	g	c	t	g	422
Db	361	g	c	t	g	a	g	t	g	t	t	g	c	g	c	a	g	c	a	t	a	c	a	t	a	t	g	c	g	c	c	t	g	c	t	g	420			
Qy	423	g	g	t	a	g	a	g	a	a	t	c	a	g	c	a	t	g	g	c	a	t	g	t	c	c	a	g	t	g	c	c	a	g	c	t	482			
Db	421	g	g	t	a	g	a	g	a	a	t	c	a	g	c	a	t	g	g	c	a	t	g	t	c	c	a	g	t	g	c	c	a	g	c	t	480			
Qy	483	g	t	c	c	o	c	c	t	c	c	t	a	g	c	a	g	c	a	g	c	a	g	c	a	c	c	t	g	g	a	c	a	c	t	542				
Db	481	g	t	c	c	o	c	c	t	c	c	t	a	g	c	a	g	c	a	g	c	a	g	c	a	c	c	t	g	g	a	c	a	c	t	540				
Qy	543	c	c	t	c	a	c	t	g	g	c	a	c	t	g	c	c	t	g	g	c	a	c	c	t	c	c	t	t	c	t	c	a	c	c	602				
Db	541	c	c	t	c	a	c	t	g	g	c	a	c	t	g	c	c	t	g	g	c	a	c	c	t	c	c	t	t	c	c	a	c	c	600					
Qy	603	g	c	t	g	t	a	g	a	g	c	t	g	t	g	c	c	g	a	t	c	c	a	g	c	c	c	c	g	a	g	c	t	g	c	662				
Db	601	g	c	t	g	t	a	g	a	g	c	t	g	t	g	c	c	g	a	t	c	c	a	g	c	c	c	c	g	a	g	c	t	g	c	660				
Qy	663	t	g	g	c	t	g	g	c	t	g	t	g	a	c	t	t	g	c	o	a	g	t	g	c	t	o	a	c	c	a	g	a	c	c	722				
Db	661	t	g	g	c	t	g	g	c	t	g	t	g	a	c	t	t	g	c	o	a	g	t	g	c	t	o	a	c	c	a	g	a	c	c	720				
Qy	723	t	c	t	g	a	c	t	t	c	c	g	g	a	c	c	g	a	c	a	c	t	g	c	o	a	g	c	a	c	t	g	t	a	t	782				
Db	721	t	c	t	g	a	c	t	t	c	c	g	g	a	c	c	g	a	c	a	c	t	g	c	o	a	g	c	a	c	t	g	t	a	t	780				
Qy	783	t	g	a	c	a	t	t	g	g	g	c	t	c	c	t	g	g	c	a	c	t	c	t	g	c	o	a	t	g	a	c	t	g	a	842				
Db	781	t	g	a	c	a	t	t	g	g	g	c	t	c	c	t	g	g	c	a	c	c	t	c	g	c	o	a	t	g	a	c	t	g	a	840				
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Qy	2581	cagacacaggcatttaaatatttaacttattttacaacaaagttagagggaatccat	2640
Db	2581	cagacacaggcatttaaatatttaacttattttacaacaaagttagagggaatccat	2640
Qy	2641	tgtactgtttctgcttggtgtcaatatitggtaggtgggggatccccacaataca	2700
Db	2641	tgtactgtttctgcttggtgtcaatatitggtaggtgggggatccccacaataca	2700
Qy	2701	ggctccctcgagatagctgttcattggctgcatctgcagaatctcttctctcgtgggt	2760
Db	2701	ggctccctcgagatagctgttcattggctgcatctgcagaatctcttctctcgtgggt	2760
Qy	2761	ctggccccccaataatgcctaaaccaggaccttgaaaattctactcaatcccacaataat	2820
Db	2761	ctggccccccaataatgcctaaaccaggaccttgaaaattctactcaatcccacaataat	2820
Qy	2821	tccaaatgctgttacccaagggttaggggtgttgaaaggaaggttagaggggtggggcttcagggt	2880
Db	2821	tccaaatgctgttacccaagggttaggggtgttgaaaggaaggttagaggggtggggcttcagggt	2880
Qy	2881	ctcaaoggtctccctaaccacccctctctctgttgccagacctggttccccecaacttcca	2940
Db	2881	ctcaaoggtctccctaaccacccctctctctgttgccagacctggttccccecaacttcca	2940
Qy	2941	ctccctctactctctcaggactggctgtagaaggcactgcaccaaatctccctacc	3000
Db	2941	ctccctctactctctcaggactggctgtagaaggcactgcaccaaatctccctacc	3000
Qy	3001	cccaactttcccctaccccccaactttcccaccagctcccaaaccttgtttggagctact	3060
Db	3001	cccaactttcccctaccccccaactttcccaccagctcccaaaccttgtttggagctact	3060
Qy	3061	gcaggaccagaagcacaaagtgcgtttcccgaagcctttgccatctcagccccagagt	3120
Db	3061	gcaggaccagaagcacaaagtgcgtttcccgaagcctttgccatctcagccccagagt	3120
Qy	3121	atatctgtctgtgggaatctcacagaaactcaggagcaccctgcctgagctaaagg	3180
Db	3121	atatctgtctgtgggaatctcacagaaactcaggagcaccctgcctgagctaaagg	3180
Qy	3181	gaggtcttatctcaggggggtttaagtccgtttgcaataatgctgtatttatt	3240
Db	3181	gaggtcttatctcaggggggtttaagtccgtttgcaataatgctgtatttatt	3240
Qy	3241	tagcggggtgaattatttatactgaagtgcagcaatcagataaattttatggtgaca	3300
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Qy	3301	aaattaaaggcttcttatgttttaaaaaaiaaaaaaaaaaaaaaaaaaaaaa	3360
Db	3301	aaattaaaggcttcttatgttttaaaaaaiaaaaaaaaaaaaaaaaaaaaaa	3360
Qy	3361	aaa	3410
Db	3361	aaa	3410

RESULT	9	
AAA06349		
ID	AAA06349	standard; cDNA; 3410 BP.
XX	XX	
AC	AAA06349;	
XX	XX	
DT	13-JUN-2000	(first entry)
XX	XX	
DE	DE	Human immunogenic prostate tumour protein cDNA sequence SEQ ID NO:110.
KW	KW	Human; prostate cancer; diagnosis; tumour; gene therapy; detection;
KW	KW	immunogenic; cytostatic; vaccine; ss.
XX	XX	
OS	OS	Homo sapiens.
XX	XX	

PN	WO200004149-A2.	
XX		
XX	27-JAN-2000.	
XX		
XX	14-JUL-1999; 99WO-US15838.	
XX		
XX	14-JUL-1998; 98US-0115453.	
PR	14-JUL-1998; 98US-0116134.	
PR	23-SEP-1998; 98US-0159812.	
PR	23-SEP-1998; 98US-0159822.	
PR	15-JAN-1999; 99US-0232149.	
PR	15-JAN-1999; 99US-0232880.	
PR	09-APR-1999; 99US-0288946.	
XX		
XX	(CORI-) CORIXA CORP.	
PA		
XX	Dillon DC, Harlocker SL, Yuqiu J, Xu J, Mitcham JL;	
XX	WPI; 2000-171268/15.	
XX		
XX	New polypeptide useful for treating and diagnosing prostate cancer	
PT	comprises an immunogenic portion of prostate tumor protein -	
XX		
XX	Claim 1; Page 135-136; 263pp; English.	
XX		
CC	The present invention describes isolated polypeptides, comprising an	
CC	immunogenic portion of a prostate tumour protein (pnp). The polypeptides	
CC	and polynucleotides encoding them have cytostatic activity and can be	
CC	used in vaccines and in gene therapy. The polypeptides and	
CC	polynucleotides encoding them, antigen presenting cells which express	
CC	the polypeptides, antibodies against the polypeptides and vaccines	
CC	comprising them can be used for inhibiting the development of prostate	
CC	cancer in a patient. The polypeptides can be used to generate antibodies	
CC	or anti-idiotypic antibodies for passive immuno therapy. A portion of	
CC	the polynucleotides encoding the polypeptides can be used as a probe or	
CC	to modulate the expression of the polypeptides. AAA06241 to AAA06691 and	
CC	AAH82000 to AAH82020 represent sequences used in the exemplification of	
CC	the present invention.	
XX		
XX	Sequence 3410 BP: 667 A; 1015 C; 945 G; 782 T; 1 other;	
SO		

Query Match	99.9%	Score	3408;	DB	21;	Length	3410;
Best Local Similarity	100.0%;	Pred. No.	0;				
Matches	3409;	Conservative	0;	Mismatches	1;	Indels	0;
Qy	1	gggaaccagcctgcacgcgctggctccgggtgacagccgcgcgcctgcgcagatctga	60				
Db	1	gggaaccagcctgcacgcgctggctccgggtgacagccgcgcgcctgcgcagatctga	60				
Qy	61	gtgatgagacgtgtcccccactgagtgccccacagcagcagtggtttgagcatgggctgag	120				
Db	61	gtgatgagacgtgtcccccactgagtgccccacagcagcagtggtttgagcatgggctgag	120				
Qy	121	aagctgcaccgcgcaccaaaggcttggcagaataatggcgccctggctgattctcaggcagtt	180				
Db	121	aagcttgaccgcgcaccaaaggcttggcagaataatggcgccctggctgattctcaggcagtt	180				
Qy	181	ggcggcagcaggagggagggccgcagcttctggagcagagccgagacgagcagttctg	240				
Db	181	ggcggcagcaggagggagggccgcagcttctggagcagagccgagacgagcagttctg	240				
Qy	241	gagtgctgaacggcccctgagccctaccgcctggcccactatggtccagagggctgtg	300				
Db	241	gagtgctgaacggcccctgagccctaccgcctggcccactatggtccagagggctgtg	300				
Qy	301	ggtgagccgcctgtgcggcccggaagccagctcttctgtgtccaacctgtcaacct	360				
Db	301	ggtgagccgcctgtgcggcccggaagccagctcttctgtgtccaacctgtcaacct	360				
Qy	361	tgccctgagagtggttttggccgcagggaatcacctatgtgcgcctctgtctgcgggaagt	420				
Db	361	tgccctgagagtggttttggccgcagggaatcacctatgtgcgcctctgtctgcgggaagt	420				

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2341 gtttcccatctctaaagccccttaacctgaactgagcttctttaaattagctcttctgagggag 2400
2341 gtttcccatctctaaagccccttaacctgaactgagcttctttaaattagctcttctgagggag 2400

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QY 2341 gttccatctctaaagcccttaacctcagcttcgtttaatgttagctcttgatggag 2400
Db 2341 gttccatctctaaagcccttaacctcagcttcgtttaatgttagctcttgatggag 2400
QY 2401 ttctagatgaacactcctccatggatttgaacatatgacttattttaggggaaga 2460
Db 2401 ttctagatgaacactcctccatggatttgaacatatgacttattttaggggaaga 2460
QY 2461 gtccctgaggggaacacacaaagcaggctccctcagcccaagcagactgtttttgt 2520
Db 2461 gtccctgaggggaacacacaaagcaggctccctcagcccaagcagactgtttttgt 2520
QY 2521 gatcaacccctcttacccttttaccagatgtgacctgttgcctctgttggcatca 2580
Db 2521 gatcaacccctcttacccttttaccagatgtgacctgttgcctctgttggcatca 2580
QY 2581 cagagacagcagcatttaataatttaacttatttatttaacaaagtagaagggaatccat 2640
Db 2581 cagagacagcagcatttaataatttaacttatttatttaacaaagtagaagggaatccat 2640
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Db 2641 tctagctttctgtgtgtgtgtcttaataatttggtaggtggggtccccaacaatca 2700
QY 2701 ggtccctgagatagctgtgctcattggctgacattgccagaattcttctcctgggt 2760
Db 2701 ggtccctgagatagctgtgctcattggctgacattgccagaattcttctcctgggt 2760
QY 2761 ctggcccccacaaatgcctaaacccagaccttggaaattctactcaccacaatgatat 2820
Db 2761 ctggcccccacaaatgcctaaacccagaccttggaaattctactcaccacaatgatat 2820
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QY 2881 ctcaacggttccctaaacacccctctctctgttggccagcgtgttcccccacttcca 2940
Db 2881 ctcaacggttccctaaacacccctctctctgttggccagcgtgttcccccacttcca 2940
QY 2941 ctccctctactctcttaggactggctgatgaagcactgcccaaaatttccctacc 3000
Db 2941 ctccctctactctcttaggactggctgatgaagcactgcccaaaatttccctacc 3000
QY 3001 cccaaatttccctaccccaacttcccccacagctccacaacccctgttggagctact 3060
Db 3001 cccaaatttccctaccccaacttcccccacagctccacaacccctgttggagctact 3060
QY 3061 gcaggaccagaagcacaaagtgcggtttcccaagccttctccatctcagcccccaggt 3120
Db 3061 gcaggaccagaagcacaaagtgcggtttcccaagccttctccatctcagcccccaggt 3120
QY 3121 atatctgtcttggggaattctcacacagaatactcaggagcaccctcgtcgtgactaagg 3180
Db 3121 atatctgtcttggggaattctcacacagaatactcaggagcaccctcgtcgtgactaagg 3180
QY 3181 gaggtcttctcaggggggtttaaagtcgcttttgaataataatgcctcttatttt 3240
Db 3181 gaggtcttctcaggggggtttaaagtcgcttttgaataataatgcctcttatttt 3240
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Db 3241 tagcgggtgaattttactactgaagtgaacatcagagtataatgtttatggtgaca 3300
QY 3301 aaattaaaggcttcttatttataatgttttaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3360
Db 3301 aaattaaaggcttcttatttataatgttttaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3360
QY 3361 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3410
Db 3361 aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3410
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RESULT 6
AAH93465
ID AAH93465 standard; cDNA; 3410 BP.
XX
AC AAH93465;
XX
DT 04-OCT-2001 (first entry)
XX
DE Human prostate-specific full length cDNA sequence L1-12.
XX
KW Human; prostate cancer; prostate-specific; diagnosis; vaccine;
KW cytosolic; gene therapy; metastasis; ss.
XX
OS Homo sapiens.
XX
PN WO200151633-A2.
XX
PD 19-JUL-2001.
XX
PF 16-JAN-2001; 2001WO-US01574.
XX
PR 14-JAN-2000; 2000US-0483672.
XX
PA (CORI-) CORIXA CORP.
XX
PI Xu J, Dillon DC, Mitcham JL, Harlocker SL, Jiang Y, Reed SG;
PI Kalos MD, Fanger GR, Day CH, Retter MW, Stolk JA, Skeiky YAW;
PI Wang A, Meagher MJ;
XX
DR WPI; 2001-425873/45.
XX
PT New polynucleotide encoding a prostate-specific protein, for
PT diagnosing, monitoring and treating prostate cancer in a patient and
PT for use in vaccines -
XX
PS Claim 1; Page 265-266; 543pp; English.
XX
CC The present invention describes polynucleotide sequences (I) which encode
CC prostate-specific proteins (II). (I) and (II) have cytostatic activity,
CC and can be used in vaccine production and gene therapy. (I), (II),
CC antibodies to (II), fusion proteins comprising (II), and isolated
CC T cells prepared using (I) or (II) are used to treat cancer in a patient.
CC (I) and the antibodies are also used in the detection of cancer in a
CC patient. The cancer that is diagnosed or treated is particularly
CC prostate cancer. (I) and (II) can be used in vaccines. The antibodies or
CC (I) can be used for monitoring the progression of cancer in a patient.
CC (I) and (II) can also be used to improve diagnostic and therapeutic
CC methods for prostate cancer. They can indicate the level of metastasis
CC as well as the prostate volume. AAH93357 to AAH93944 and AAH01115 to
CC AAH01318 represent polynucleotide and amino acid sequences used in the
CC exemplification of the present invention.
XX
SQ Sequence 3410 BP; 667 A; 1014 C; 945 G; 783 T; 1 other;
```

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Query Match 100.0%; Score 3409.6; DB 22; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ggggaaccgctgcacgcgctggtccggtgacagccgcgcctcgccaggaatcga 60
Db 1 ggggaaccgctgcacgcgctggtccggtgacagccgcgcctcgccaggaatcga 60
QY 61 gtgatgacgtgtcccaactgagtgccccacagcagcaggtgttgagcatgggctgag 120
Db 61 gtgatgacgtgtcccaactgagtgccccacagcagcaggtgttgagcatgggctgag 120
QY 121 aagctggaccggcaccacaaagggtggcagaataatggcgctggtgattcctaggcagtt 180
Db 121 aagctggaccggcaccacaaagggtggcagaataatggcgctggtgattcctaggcagtt 180
QY 181 ggcggcagcaaggagagagccgcagcttctggagcagccgagacgaagcagcttctg 240
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|||||
Db 121 aagctggaccggaaccagagctggcagaaatgggcctggtgatttccctaggcagtt 180
QY 181 ggcgcagcaagagagagagccgcagcttctggagcagagccgcagacagcagttctg 240
Db 181 ggcgcagcaagagagagagccgcagcttctggagcagagccgcagacagcagttctg 240
QY 241 gagtgcctgaacggccccctgagccctaccgcctggcccaactatggtccagaggctgtg 300
Db 241 gagtgcctgaacggccccctgagccctaccgcctggcccaactatggtccagaggctgtg 300
QY 301 ggtgagccgctgctggcgacgcggaagcccaagctcttctggtcaacctgtaacctt 360
Db 301 ggtgagccgctgctggcgacgcggaagcccaagctcttctggtcaacctgtaacctt 360
QY 361 tggcctgagaggtgtgtttggccgagcagcatcaacctatgtgcgcctctgctgctggaagt 420
Db 361 tggcctgagaggtgtgtttggccgagcagcatcaacctatgtgcgcctctgctgctggaagt 420
QY 421 gggggtagaggaagttcatgacctggtgctgggcaattgggtccagtgctggcctggt 480
Db 421 gggggtagaggaagttcatgacctggtgctgggcaattgggtccagtgctggcctggt 480
QY 481 ctgtgtcccgcctctagctcagccagtgaccactggcgctggacgctatggccgcgcgcg 540
Db 481 ctgtgtcccgcctctagctcagccagtgaccactggcgctggacgctatggccgcgcgcg 540
QY 541 gcccttcatctggcactgctcttggcactccctgctgagcctcttttctatcccaaggcc 600
Db 541 gcccttcatctggcactgctcttggcactccctgctgagcctcttttctatcccaaggcc 600
QY 601 cggctgctagcagggtgctgtgcccggatcccaggccctggagctgcaactgctcat 660
Db 601 cggctgctagcagggtgctgtgcccggatcccaggccctggagctgcaactgctcat 660
QY 661 cctgggcgtgggctgctgactctgtgccaggtgtgttcaactccactgagggcct 720
Db 661 cctgggcgtgggctgctgactctgtgccaggtgtgttcaactccactgagggcct 720
QY 721 gctctctgactcttcgggaccccgaccactgtccagggcctactctgtctatgctt 780
Db 721 gctctctgactcttcgggaccccgaccactgtccagggcctactctgtctatgctt 780
QY 781 catgatcagcttggggctgctgggctacctcctgctcctgcccattgactgggacaccag 840
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Db 841 tgcctggccccctacactgggacccagagagtgctctttggcctgctacccctcat 900
QY 901 ctctctcaactgctgtagcagccacactgctggtggctgagggagcagctggggccccac 960
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QY 961 cgaacagcagaaaggctgtcgccccctcttctgccccactgtgtccatgcccgggc 1020
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QY 1081 catgccccgacccctgcgcgcgtcttctgtggtgagctgtgagctggatggcaactcat 1140
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Db 1141 gacctcacgctgttttacacgatttctgtggcgagggcgtgtacagggcgtgccag 1200
QY 1201 agctgacccgggacccagggccggagacactatgatgaaggcttcggatgggcagcct 1260
|||||

Db 1201 agctgacccgggcaaccgagggcccgagaaactatgatgaaggcgttcggatgggcagcct 1260
QY 1261 gggcgtgttctgcagtgcccatctccctggttcttctctctgtatggacggctggt 1320
Db 1261 gggcgtgttctgcagtgcccatctccctggttcttctctctgtatggacggctggt 1320
QY 1321 ggaagcttcggcactcgagcagctatatttggccagtgtagccagtttccctgtggtgc 1380
Db 1321 ggaagcttcggcactcgagcagctatatttggccagtgtagccagtttccctgtggtgc 1380
QY 1381 cgtgtccacatgctgtcccacagtgtagccgtgtgtagcagtttccagccctcacccg 1440
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QY 1441 gttcaccttctcagcctgcagatcctgcctacacactggcctcccttccacccggga 1500
Db 1441 gttcaccttctcagcctgcagatcctgcctacacactggcctcccttccacccggga 1500
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QY 1801 atccctgttattgggtccatattgtccagctcagccagctgtcactgcttatatggtgc 1860
Db 1801 atccctgttattgggtccatattgtccagctcagccagctgtcactgcttatatggtgc 1860
QY 1861 tgcgcagcgtggtgtgtgtgccttactttgtacacaggtagtagttttacacagag 1920
Db 1861 tgcgcagcgtggtgtgtgtgccttactttgtacacaggtagtagttttacacagag 1920
QY 1921 cgacttggccaaataactcagctagaaaacttccagcacattgggggtggagggtcct 1980
Db 1921 cgacttggccaaataactcagctagaaaacttccagcacattgggggtggagggtcct 1980
QY 1981 cactgggtcccagctcccgcctcctgttagcccatggggctaccgggtggcccgag 2040
Db 1981 cactgggtcccagctcccgcctcctgttagcccatggggctaccgggtggcccgag 2040
QY 2041 ttctgttctgcccagaaatgtggctcctgtgtgccacccctgtgtcgtgaggtgcgta 2100
Db 2041 ttctgttctgcccagaaatgtggctcctgtgtgccacccctgtgtcgtgaggtgcgta 2100
QY 2101 gctgcacagctggggcgtggcgctcctctcttcccagctctctagggcgtgctg 2160
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QY 2161 actggaggccttccaaagggttttcagctcgtgacttatcacaggagggccagaggctcc 2220
Db 2161 actggaggccttccaaagggttttcagctcgtgacttatcacaggagggccagaggctcc 2220
QY 2221 atgactggaatgcggggactcgtgcaggtggattaccaggtcaggggttaacagctagc 2280
Db 2221 atgactggaatgcggggactcgtgcaggtggattaccaggtcaggggttaacagctagc 2280
QY 2281 ctctcagttgagacacacacttagaagggtttttggagctgaataaacctcagtcactg 2340
Db 2281 ctctcagttgagacacacacttagaagggtttttggagctgaataaacctcagtcactg 2340

[illegible]

Db	3181	gagggtctattctcaggggggtttaagtgcgtttgaataatgctgtcttattatt	
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Db	3241	tagcggggtgaatatattactgtaagtgaagcaatcacagataaatgtttatggtgaca	
Qy	3301	aaattaagggttccttatgtttataaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	
Db	3301	aaattaaagggttccttatgtttataaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	
Qy	3361	aa	
Db	3361	aa	
RESULT	5		
ID	AAS10108		
XX	AAS10108 standard; cDNA; 3410 BP.		
AC	AAS10108;		
DT	24-OCT-2001 (first entry)		
DE	Human prostate tumour cDNA L1-12.		
KW	Human; prostate tumour protein; prostate cancer; ss.		
OS	Homo sapiens.		
PN	US6262245-B1.		
XX	17-JUL-2001.		
PF	25-FEB-1998; 98US-0030607.		
XX	25-FEB-1997; 97US-0806099.		
PR	01-AUG-1997; 97US-0904804.		
PR	09-FEB-1998; 98US-0020956.		
XX	(CORI-) CORIXA CORP.		
PA	Xu J, Dillon DC;		
PI	WPI; 2001-440862/47.		
XX	P-PSTDB; AAU04961.		
DR	Novel polynucleotide encoding polypeptide comprising a portion of		
PT	prostate tumour protein useful for inhibiting development of prostate		
PT	cancer or for treating prostate cancer in a patient -		
XX	Claim 3; Column 118-121; 105pp; English.		
PS	The sequence is a human prostate tumour cDNA which encodes a		
CC	partial tumour protein. The DNA is useful for inhibiting the development		
CC	of prostate cancer or for treating prostate cancer in a patient.		
XX	Sequence 3410 BP; 667 A; 1014 C; 945 G; 783 T; 1 other;		
SQ			
Query Match	100.0%; Score 3409.6; DB 22; Length 3410;		
Best Local Similarity	100.0%; Pred. No. 0;		
Matches 3410; Conservative	0; Mismatches 0; Indels 0; Gaps 0;		
QY	1 gggaaaccagcctgcacgcgttgctcccggtgacagccgcgcctccgccaggtatcta	60	
Db	1 gggaaaccagcctgcacgcgttgctcccggtgacagccgcgcctccgccaggtatcta	60	
QY	61 tggatgacacctgtcccacatgaggtgcccacagcacaggtgttgagcatgggctgag	120	
Db	61 tggatgacacctgtcccacatgaggtgcccacagcacaggtgttgagcatgggctgag	120	
QY	121 asgtgtagccggcaccaaaaggctggcagaatgggcgcctggctgattcctaggagtt	180	

Query Match	100.0%;	Score	3409.6;	DB	22;	Length	3410;
Best Local Similarity	100.0%;	Pred. No.	0;				
Matches	3410;	Conservative	0;	Mismatches	0;	Indels	0;
Gaps	0;						
Qy	1	gggaaccagcctgcacgcctgcctggctccgggtggacagccgcgcctcggccaggaatctga	60				
Db	1	gggaaccagcctgcacgcctgcctgggtggacagccgcgcctcggccaggaatctga	60				
Qy	61	gtgatgagcgtgtcccaactgaggtgccccacagcagcaggtgttgacatggcctgag	120				
Db	61	gtgatgagcgtgtcccaactgaggtgccccacagcagcaggtgttgagcctggcctgag	120				
Qy	121	aagctggaccggcaccaaaaggctggcagaaaatggcgcctggctgattccttaggcagt	180				
Db	121	aagctggaccggcaccaaaaggctggcagaaaatggcgcctggctgattccttaggcagt	180				
Qy	181	ggcgacagcagaagagcgcagcagctcttgagacagaccgagacgaagcagctctcg	240				
Db	181	ggcgacagcagaagagagcgcagcagctcttgagacagaccgagacgaagcagctctcg	240				
Qy	241	gagtgcttgaacggccccctgagccctaccgcctggccccatctggtccagagcgtgtg	300				
Db	241	gagtgcttgaacggccccctgagccctaccgcctggccccatctggtccagagcgtgtg	300				
Qy	301	ggtagccgcctgctgcggcaccggaaagccagctcttctgtgggtccaaactgctaaacct	360				
Db	301	ggtagccgcctgctgcggcaccggaaagccagctcttctgtgggtccaaactgctaaacct	360				
Qy	361	tggcctgaggtgtgtttggccgcagggaatacactatgtgcgcctctgctctgaaagt	420				
Db	361	tggcctgaggtgtgtttggccgcagggaatacactatgtgcgcctctgctctgaaagt	420				
Qy	421	ggggtagagagaagtgcattcacatggtgctgggcattggtccagtgctgggcctggt	480				
Db	421	ggggtagagagaagtgcattcacatggtgctgggcattggtccagtgctgggcctggt	480				
Qy	481	cttgtcccgctccttagctcagccagtgaccactggcgtgacgcctatggccgcgcgcg	540				
Db	481	cttgtcccgctccttagctcagccagtgaccactggcgtgacgcctatggccgcgcgcg	540				
Qy	541	gccctcaactggcactgctctgggacactgctggagcctcttctcatcccaagggc	600				
Db	541	gccctcaactggcactgctctgggacactgctggagcctcttctcatcccaagggc	600				
Qy	601	cggctggctagcagggtcgtgtgcccggatcccaaggccccctggagctggcactgctcat	660				
Db	601	cggctggctagcagggtcgtgtgcccggatcccaaggccccctggagctggcactgctcat	660				
Qy	661	cctggcgtgggctgctggagctctgtggcagggtgtgtctcaactccactggagccct	720				
Db	661	cctggcgtgggctgctggagctctgtggcagggtgtgtctcaactccactggagccct	720				
Qy	721	gctctgtacctcttcggggaccccgaccactgtgcagggccctactctgtctatgctt	780				
Db	721	gctctgtacctcttcggggaccccgaccactgtgcagggccctactctgtctatgctt	780				
Qy	781	catgatcagctctgggggctgctgggctacactccctgacctggccatgactgggacaccag	840				
Db	781	catgatcagctctgggggctgctgggctacactccctgacctggccatgactgggacaccag	840				
Qy	841	tggccctggccccctacctgggccaaccagaggagtgctctcttggcctgctcaacctcat	900				
Db	841	tggccctggccccctacctgggccaaccagaggagtgctctcttggcctgctcaacctcat	900				
Qy	901	cttctccactcgtgtagcagcacactgctggtggctgagggagcagcgtgggccccac	960				
Db	901	cttctccactcgtgtagcagcacactgctggtggctgagggagcagcgtgggccccac	960				
Qy	961	cgaagccagcagaagggtcgtggccccctccttctgtgcgccactgtgtctatgcgcggc	1020				
Db	961	cgaagccagcagaagggtcgtggccccctccttctgtgcgccactgtgtctatgcgcggc	1020				

Qy	3241	taagcggggtgaataattttatactgtaagtgagcaatcagagataaattttatgggaca	3300
Db	3241	tgcgcggggtgaataattttatactgtaagtgagcaatcagagataaattttatgggaca	3300
Qy	3301	aaattaaagcgtttctttatattgttaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	3360
Db	3301	aaattaaagcgtttctttatattgttaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	3360
Qy	3361	aaaaaaatataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa	3410
Db	3361	aaaaaaatataaaaaaaataaaaaaaataaaaaaaataaaaaaaataaaaaaa	3410

AAS63557

AAS63557; AC

Human prostate cDNA sequence #109.

OS Homo sapiens.

PD 04-OCT-2001.

PR 27-MAR-2000; 2000US-0536857.

PR 27-JUN-2000; 2000US-0605783.

PR 02-OCT-2000; 2000US-0679426.

XX

DR WPI; 2001-639232/73.

PS Claim 1; Page 267-268; 579pp; English.

CC antibodies raised against the polypeptides (or antigenic epitopes derived from them) and antigen-presenting cells expressing the

cancer, especially prostate cancer. The polypeptides, polynucleotides and
 the antigen-presenting cells are useful for stimulating and/or expanding
 T cells specific for a tumour protein, and for inhibiting the development
 of cancer especially prostate cancer. Compositions comprising the
 polynucleotide and/or polypeptide are useful for stimulating an immune
 response, and for treating cancer. The oligonucleotide is useful for
 detecting cancer. The present sequence is a prostate specific
 polynucleotide of the invention.

SQ Sequence 3410 BP; 667 A; 1014 C; 945 G; 783 T; 1 other;

Best Local Similarity 100.0%; Pred. No. 0;		Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1	ggaaacagcctcagcgcctgctcgggtgacagccgcgcctcggccagatctga	60
Db	1	ggaaacagcctcagcgcctgctcgggtgacagccgcgcctcggccagatctga	60
QY	61	gtgatgagcgtgtcccaatgagtgccacacagcagcaggtgttgagcatgggtgag	120
Db	61	gtgatgagcgtgtcccaatgagtgccacacagcagcaggtgttgagcatgggtgag	120
QY	121	aagctggacccgacccaaagggctggcagaaaatggcgccctggtgattctcaggagtt	180
Db	121	aagctggacccgacccaaagggctggcagaaaatggcgccctggtgattctcaggagtt	180
QY	181	ggcggcagcagaagcagagccgcagcttctgagcagaagccgacacaagcagttctg	240
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QY	241	gagtgctgaacggccccctgagccctacccgctgcccactatggtccagaggtgtg	300
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Db	301	ggtgagccgctgctgcggcaccggaaagcccaagctcttgctggtcaacctgtacactt	360
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QY	421	gggggtagaggaaagtccaatgacctggtgctggccattggtccagtgctggccctggt	480
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QY	601	cggctggctagaggctgctgtgccggatccagggcccccctggagctggcactgctcat	660
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RESULT 3			
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ID	AAC79473 standard; cDNA; 3410 BP.		
XX			
AC	AAC79473;		
XX			
DT	07-FEB-2001 (first entry)		
XX			
DE	cDNA sequence of human breast tumour clone P501S.		
XX			
KW	Human; breast tumour antigen; cytostatic; immunotherapy;		
KW	breast cancer; vaccine; ss.		
XX			
OS	Homo sapiens.		
XX			
PN	WO200061756-A2.		
XX			
PD	19-OCT-2000.		
XX			
PF	10-APR-2000; 2000WO-US09688.		
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PR	09-APR-1999; 99US-0288950.		
PR	02-JUL-1999; 99US-0346327.		
PA	(CORI-) CORIXA CORP.		
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PI	Reed SG, Xu J, Dillon DC;		
XX			
DR	WPI; 2000-638568/61.		
DR	P-PSDB; AAB28527.		
XX			
PT	A novel isolated polypeptide comprising an immunogenic portion of a		
PT	breast cancer protein useful in the detection and treatment of breast		
PT	cancer -		
XX			
PS	Claim 26; Page 91-92; 95pp; English.		
XX			
CC	The present sequence was isolated from a breast tumour cDNA library. I		
CC	is provided in a specification relating to compounds for immunotherapy		
CC	and diagnosis of breast cancer. Breast tumour antigens and the		
CC	polynucleotides that encode them may be used in the production of a		
CC	pharmaceutical composition to be used in the treatment of breast cancer		
CC	proliferated T cells and incubated antigen presenting cells are also		
CC	required. The polypeptides and polynucleotides may also be used to		
CC	produce a vaccine.		
XX			
SQ	Sequence 3410 BP; 667 A; 1014 C; 945 G; 783 T; 1 other;		

Query Match 100.0%; Score 3409.6; DB 21; Length 3410;

CC encoded by this sequence). An antibody which binds to an immunogenic
CC portion of the prostate protein, and the method can be used to detect,
CC monitor progression of, or treat prostate cancers. The antibody may
CC also be conjugated to a therapeutic agent for use in therapy of prostate
CC cancers.

Sequence 3410 BP; 667 A; 1014 C; 945 G; 783 T; 1 other;

```
Query Match      100.0%; Score 3409.6; DB 19; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 2

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ID AAV58586 standard; CDNA; 3410 BP.

XX

AC AAV58586;

XX

DT 08-DEC-1998 (first entry)

XX

DE Prostate tumour specific gene clone L1-12.

XX

KW Prostate tumour specific gene; human; prostate cancer; detection;

KW therapy; ss.

OS Homo sapiens.

XX

XX Key Location/Qualifiers

FH CDS 284..1945

FT /*tag= a

XX

XX WO9837418-A2.

XX

XX 27-AUG-1998.

XX

XX 25-FEB-1998; 98WO-US03690.

XX

XX 09-FEB-1998; 98US-0904809.

XX

XX 25-FEB-1997; 97US-0806596.

XX

XX 01-AUG-1997; 97US-0904809.

XX

XX (CORI-) CORIXA CORP.

XX

XX Dillon DC, Xu J;

XX

XX WPI; 1998-480805/41.

XX

XX P-PSDB; AAW69385.

XX

XX Novel human prostate specific tumour protein and fragments - useful

XX

XX for detecting and treating prostate cancers

XX

XX Claim 1; Page 84-85; 141pp; English.

XX

XX This sequence represents a human prostate tumour specific gene, and can

XX be used in the method of the invention. The method is for detecting

XX prostate cancer comprises contacting a biological sample with an agent

XX able to bind an immunogenic portion of a prostate protein (such as

GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 22:13:36 ; Search time 356.12 seconds
(without alignments)
16440.184 Million cell updates/sec

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Perfect score: 3410
Sequence: 1 ggaacagcctgcagcgc.....aaaaataaaaaaaaaa 3410

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1736436 seqs, 858457221 residues

Total number of hits satisfying chosen parameters: 3472872

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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24: /SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	3409.6	100.0	3410	19	Full length cDNA s
2	3409.6	100.0	3410	19	Prostate tumour sp
3	3409.6	100.0	3410	21	cDNA sequence of h
4	3409.6	100.0	3410	22	Human prostate cDN
5	3409.6	100.0	3410	22	Human prostate tum
6	3409.6	100.0	3410	22	Human prostate-spe
7	3409.6	100.0	3410	22	Human prostate-spe
8	3409.6	100.0	3410	22	Prostate tumour an
9	3408	99.9	3410	21	Human immunogenic

10	3292.4	96.6	3320	24	AAS14962	DNA encoding human
11	2585.4	75.8	4034	22	AAS64040	Human prostate cDNA
12	2585.4	75.8	4034	22	AAH93868	P53S cDNA splice
13	2196.4	64.4	2904	22	AAS64039	Human prostate cDNA
14	2196.4	64.4	2904	22	AAH93867	P53S cDNA splice
15	2142.8	62.8	4894	22	AAS64038	Human prostate cDNA
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18	2136.4	62.7	2152	20	AAV71181	Consensus sequence
19	2114.8	62.0	2143	20	AAV71180	Clone 1711346H, t
20	2065.4	60.6	2462	21	AAZ45677	cDNA sequence of a
21	1915	56.2	2133	21	AAC64928	Human prostate-rel
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23	1899.8	55.7	2124	21	AAC64927	Human prostate-rel
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29	794.6	23.3	1203	22	AAH93917	Ra12-P5015-E2 cons
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33	673.4	19.7	789	22	AAS63458	Human prostate cDN
34	673.4	19.7	789	22	AAH07155	Human prostate tum
35	673.4	19.7	789	22	AAH93366	Human prostate-spe
36	673.4	19.7	789	22	AAH84680	Human prostate-spe
37	673.4	19.7	789	22	AAH02431	Prostate tumour an
38	603	17.7	772	19	AAH61145	5' cDNA sequence o
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ALIGNMENTS

RESULT 1
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ID AAV61201 standard; cDNA; 3410 BP.
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AC AAV61201;
XX
DT 06-JAN-1999 (first entry)
XX
DE Full length cDNA sequence of prostate tumour clone L1-12.
XX
KW Prostate; cancer; tumour; vaccine; immunogen; clone; ss.
XX
OS Homo sapiens.
XX
PN WO9837093-A2.
XX
PD 27-AUG-1998.
XX
PF 25-FEB-1998; 98WO-US03492.
XX
PR 09-FEB-1998; 98US-0020956.
PR 25-FEB-1997; 97US-0806099.
PR 01-AUG-1997; 97US-0904804.
XX
(CORI-) CORIXA CORP.
XX
PI Dillon DC, Xu J;
XX
DR WPI; 1998-609886/51.
DR P-PSDB; AAW71869.
XX
PT Polypeptides comprising immunogenic portions of prostate proteins -

APPLICANT: KRATOCHVIL, JON D.
APPLICANT: ROBERTS-RAPP, LISA
APPLICANT: RUSSELL, JOHN C.
APPLICANT: STROUPE, STEPHEN D.
TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
FOR DETECTING DISEASES OF THE PROSTATE
TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Abbott Laboratories
STREET: 100 Abbott Park Road
CITY: Abbott Park
STATE: IL
COUNTRY: USA
ZIP: 60064-3500
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/071,710
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/850,713
FILING DATE: 02-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Becker, Cheryl L.
REGISTRATION NUMBER: 35,441
REFERENCE/DOCKET NUMBER: 6083.US.P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 847/935-1729
TELEFAX: 847/938-2623
TELEX:
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 342 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: base_polymorphism
LOCATION: 323
OTHER INFORMATION: /note= " N' represents an A or G or
OTHER INFORMATION: T or C polymorphism at this position"
US-09-071-710-8

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Best Local Similarity	98.5%;	Pred. No. 6.4e-55;		
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; Sequence 8, Application US/09525397
; Patent No. 6252047
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/525.397
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071,710
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 342 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: base_polymorphism
; LOCATION: 323
; OTHER INFORMATION: /note= " N' represents an A or G or
; OTHER INFORMATION: T or C polymorphism at this position"
; US-09-525-397-8

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	Query Match	9.4%	Score 319.8	DB 4	Length 342
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	Matches 333	Conservative	0	Mismatches 3	Indels 2
				Gaps 1	
Qy	2207	gccagaaggggtccatgcactggaaatcggggaactctgcagggtgattaccagggctcag	2266		
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RESULT 10

US-09-439-313-10
; Sequence 10, Application US/09439313
; Patent No. 6325505

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yucui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael
; APPLICANT: Fanger, Gary
; APPLICANT: Retter, Mark
; APPLICANT: Solk, John
; APPLICANT: Day, Craig

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND

; FILE REFERENCE: 210121.427C9

; CURRENT APPLICATION NUMBER: US/09/439, 313

; CURRENT FILING DATE: 1999-11-12

; NUMBER OF SEQ ID NOS: 575

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 10

; LENGTH: 789

; TYPE: DNA

; ORGANISM: Homo sapien

; FEATURE:

; NAME/KEY: misc_feature

; LOCATION: (1)...(789)

; OTHER INFORMATION: n = A,T,C or G

US-09-439-313-10

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Best Local Similarity 94.2%; Pred. No. 7.7e-125;

Matches 745; Conservative 0; Mismatches 40; Indels 6; Gaps 5;

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RESULT 11

US-09-020-956-11/c

; Sequence 11, Application US/09020956

; Patent No. 6261562

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillon, Davin C.

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS

; NUMBER OF SEQUENCES: 178

; CORRESPONDENCE ADDRESS:

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, OPERATING SYSTEM: PC-DOS/MS-DOS
, SOFTWARE: PatentIn Release #1.0, Version #1.30
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, CURRENT APPLICATION DATA:
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, APPLICATION NUMBER: US/09/020,956
, FILING DATE: 09-FEB-1998
, CLASSIFICATION:
,
, ATTORNEY/AGENT INFORMATION:
, NAME: Makl, David J.
, REGISTRATION NUMBER: 31,392
, REFERENCE/DOCKET NUMBER: 210121.427C2
, TELECOMMUNICATION INFORMATION:
, TELEPHONE: (206) 622-4900
, TELEFAX: (206) 682-6031
, INFORMATION FOR SEQ ID NO: 10:
, SEQUENCE CHARACTERISTICS:
, LENGTH: 789 base pairs
, TYPE: nucleic acid
, STRANDEDNESS: single
, TOPOLOGY: linear
, MOLECULE TYPE: cDNA
, US-09-020-956-10

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Query Match 19.7%; Score 673.4; DB 4; Length 789;
Best Local Similarity 94.2%; Pred. No. 7.7e-125;
Matches 745; Conservative 0; Mismatches 40; Indels 6

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QY	1401	acagtgtggccgtggtgaacagcttcagccgccctcacccggttacctcttcacgcctgc	1460
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QY	1461	agatcctgcccctacacactggcctccctctcacccgggagaaagcagtggttccctgcaca	1520
Db	121	AGATCCTGCCCTACACACTGSCCTCCCTCTACCAACGGGAGAACAGGTGTTCTGTGCCA	180
QY	1521	aataccgaggggacactggaggtgctagcadtgaggacagcactgaaccagcttccctgc	1580
Db	181	AATACCGAGGGACACTGGAGGTGCTAGCACTGAGACAGCGCTGATGACCAAGTTCCTGC	240
QY	1581	cagccctaagcttggaagctcctccctaagacacagtgggtgctgagagcagtgccc	1640
Db	241	CAGGCCCTAAGCCCTGGAGCTCCCTTCCCTAATGACACGTGGGTCTGGAGCAGTGCCC	300
QY	1641	tgtctccacactccaccgcgcctctgcggggcctctgctgtgatgtctccctacagtgtgg	1700
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QY	1761	ccatccttgatagtgcttctctgtgccaggtagcccaactcctgtttatgggctcca	1820
Db	421	CCATCCTGGATAGTG-CTTCTGCTGTGCCANGTGGCCCCCATCCCTGTTTATGGGCTCCA	479
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Db	480	TTGTCCAGCTCAGCCAGTCTGTCACTGCTATATGTTGTCTGCCGACGGCTGGTCTGG	539
QY	1881	tcgcaattacttgtctacacaggtagttattgacaagagcgaacttgcccaaaactcag	1940
Db	540	TC-CCATTTACTTTGCTACACAGGTATATTGACAAGACGANTTGCCCAAACTACAG	598
QY	1941	cgtagaaaacttcacaga--catgtgggtgagggcctgcctcaactgggtcccagctccc	1998
Db	599	CGTTAAAAAATTCAGCAACAATTGGGGGTGGAAGGCCCTGCCCTCACTGGGT-CCAACTCCC	657
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Db	658	CGCTCTCTTTAACCCCATGGGGCTGCCGCTTGGCGCCCAATTCTGTGCTGCACAAANT	711
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Qy	2118	tggggcgctcc	2128
Db	778	TNGGGNGTCC	788

RESULT 9

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US-09-030-607-10
; Sequence 10, Application US/0903030607
; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 789 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; PS-09-030-607-10

```

Query Match 19.7%; Score 673.4; DB 4; Length 789;
Best Local Similarity 94.2%; Pred. No. 7.7e-125;
Matches 745; Conservative 0; Mismatches 40;
Indels 6; Gaps 5;

Qy	1341	cagtcctatttggccagctgtgtggcagctttccctgttggctgcggtggccacatgctgtctcc	1400
Db	1	CAGTCTATNTGGCCAGTGTGGGAGCTTTCCCTGTGTGGCTGCCGTGCCACATGCGCTGTGCC	60
Qy	1401	acagttgtgccgtgtgtgacagctttcagcgcgcctcaccggtttcaccttttcacgccttgc	1460
Db	61	ACAGTGTGGCCGTGTGTGACAGCTTTCAGCGCGCCCTCACCGGTGTACCTTCTCAGGCCCTTGC	120
Qy	1461	agatccttgccctacacacttggctcctcctctacaccggggagagcaggtgttctctgcctca	1520
Db	121	AGATCTCTGCCCTACACACTTGGCCCTCCCTCTACCCGGGAGAGCAGGTGTTCCTTGCCTCA	180
Qy	1521	aatacagaggggacactggagtgcttagcagtgatggagcagcctgatgaccacgcttctctgc	1580
Db	181	AATACCGAGGGGACCTTGAGGTGCTTACAGTGTGAGGACAGCGCTGATGACCAAGCTTCTTGC	240

Db 241 CAGCGCGCCTCACCGGGTTACCTTCTCAGCGCTGCAGATCTCTGCCCTACACACTGCGCT 300
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Db 301 CCCCTACCAACCGGGAAGCAGGTGTTCTGCGCCAAATACCGAGGGGACACTGGAGGT 360
Qy 1545 ctacagtgaggacagcctgatcaccagcttctgcccaggccctaaagccttgagctccct 1604
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RESULT 8

US-09-020-956-10

; Sequence 10, Application US/09020956

; Patent No. 6261562

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; APPLICANT: Dillin, Davin C.

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHODS

; NUMBER OF SEQUENCES: 178

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED and BERRY LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: WA

; COUNTRY: USA

; ZIP: 98104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible


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Db 2040 AATGTCGCTTATTTTATTTTATGCGGGGTGAATATTTTATATATTTTATATATATTTTA 2099
Qy 3283 ataattgtattgtgacaaaattaaagcctttcttatatttta 3326
Db 2100 ATAATGTTTATGGTGACAAATTAAGAGCTTCTTTATATATTTTA 2143

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RESULT 7

US-09-525-397-15
; Sequence 15, Application US/09525397
; Patent No. 6252047
; GENERAL INFORMATION:

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; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/525,397
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071,710
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2143 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-09-525-397-15

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Query Match 62.0%; Score 2114.8; DB 4; Length 2143;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2139; Conservative 0; Mismatches 2; Indels 3; Gaps 2;

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Qy 1245 ttcgagatgggcagcctggggcgtgttctcgaagtcgacatctcctgtctctctg 1304
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Qy 1305 tcatggaccggcgtggtcagcgattcggcactcgagcagctatttggccagtggtg 1364
Db 121 TCATGGACCGGCTGTCGAGGATTCGGCATCTCGACAGTCTATTGCGCAGTGTGGCAG 180

Qy 1365 ctttccctgtggtggtgggtggtggtggtggtggtggtggtggtggtggtggtggt 1424
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Qy 1425 cagccgccccacgggttcacctctcagccctgcagatcctgcctcacactggcct 1484

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Qy 3215 ttgcaataatgtogtcttatttatttagcggggtgaataatttataacttaagttagca 3274
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Qy 3275 atcagaataaattttatgtgacaaaataaaggcttcttattatgttta 3326
Db 2101 ATCAGAGTAATAATGTTATGTTGACAAAATAAAGGCTTTCTTATATGTTTA 2152

RESULT 6

US-09-071-710-15
; Sequence 15, Application US/09071710
; Patent No. 6130043
; GENERAL INFORMATION:
; APPLICANT: BILLING-MEDEL, PATRICIA
; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLOSS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071,710
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/850,713
; FILING DATE: 02-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083 US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2143 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-071-710-15

Query Match 62.0%; Score 2114.8; DB 3; Length 2143;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2139; Conservative 0; Mismatches 2; Indels 3; Gaps 2;
Qy 1185 accagggtgcccagactgagcgggcaccggccggagagacactatgatgaagcgc 1244
Db 1 ACCAGGGCGTGCCAGAGCTGAGCGGGCACCGAGGGCCCGAGACACTATGATGAAGCGC 60

Qy 1245 ttoggatgggcagcctggggctgttcttcagtgcccatctccctgggtctctctctg 1304
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Db 121 TCATGACCCGGCTGGTGCAGCGATTTCGGCACTCGAGCAGTCTATTTGGCCAGTGTGCAG 180
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; Patent No. 6252047
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; APPLICANT: COHEN, MAURICE
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; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; TITLE OF INVENTION: FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/525,397
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/071,710
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2152 base pairs

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; APPLICANT: COHEN, MAURICE
; APPLICANT: COLPITTS, TRACEY L.
; APPLICANT: FRIEDMAN, PAULA N.
; APPLICANT: GORDON, JULIAN
; APPLICANT: GRANADOS, EDWARD N.
; APPLICANT: HODGES, STEVEN C.
; APPLICANT: KLASS, MICHAEL R.
; APPLICANT: KRATOCHVIL, JON D.
; APPLICANT: ROBERTS-RAPP, LISA
; APPLICANT: RUSSELL, JOHN C.
; APPLICANT: STROUPE, STEPHEN D.
; TITLE OF INVENTION: REAGENTS AND METHODS USEFUL
; FOR DETECTING DISEASES OF THE PROSTATE
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Abbott Laboratories
; STREET: 100 Abbott Park Road
; CITY: Abbott Park
; STATE: IL
; COUNTRY: USA
; ZIP: 60064-3500
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/071,710
; FILING DATE:
; CLASSIFICATION:
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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/850,713
; FILING DATE: 02-MAY-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Becker, Cheryl L.
; REGISTRATION NUMBER: 35,441
; REFERENCE/DOCKET NUMBER: 6083.US.P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 847/935-1729
; TELEFAX: 847/938-2623
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2152 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-09-071-710-16
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Best Local Similarity 99.9%; Pred. No. 0;
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[illegible]

RESULT 3

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3	Patent No. 6329505	110
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6	APPLICANT: Dillon, Davin C.	110
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9	Patent No. 6329505	110
10	GENERAL INFORMATION:	110
11	APPLICANT: Xu, Jiangchun	110
12	APPLICANT: Dillon, Davin C.	110
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18	APPLICANT: Dillon, Davin C.	110
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22	GENERAL INFORMATION:	110
23	APPLICANT: Xu, Jiangchun	110
24	APPLICANT: Dillon, Davin C.	110
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70	GENERAL INFORMATION:	110
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78	APPLICANT: Dillon, Davin C.	110
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96	APPLICANT: Dillon, Davin C.	110
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98	Sequence 110, Application US/09439313	110
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; Patent No. 6262245
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; NUMBER OF SEQUENCES: 224
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,607
; FILING DATE: 25-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: MAKI, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; US-09-030-607-110

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GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 22:12:36 ; Search time 75.23 Seconds
(without alignments)
11133.992 Million cell updates/sec

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Searched: 383533 seqs, 122816752 residues

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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28	247	7.2	247	3	US-09-071-710-4	Sequence 4, Appli
29	247	7.2	247	4	US-09-525-397-4	Sequence 4, Appli
30	220	6.5	231	3	US-09-071-710-5	Sequence 5, Appli
31	220	6.5	231	4	US-09-525-397-5	Sequence 5, Appli
32	217	6.4	217	3	US-09-071-710-2	Sequence 2, Appli
33	217	6.4	217	4	US-09-525-397-2	Sequence 2, Appli
34	213	6.2	213	3	US-09-071-710-14	Sequence 14, Appl
35	213	6.2	213	4	US-09-525-397-14	Sequence 14, Appl
36	210	6.2	223	3	US-09-071-710-7	Sequence 7, Appli
37	210	6.2	223	4	US-09-525-397-7	Sequence 7, Appli
38	184.2	5.4	231	4	US-09-439-313-458	Sequence 458, App
39	183	5.4	195	3	US-09-071-710-6	Sequence 6, Appli
40	183	5.4	195	4	US-09-525-397-6	Sequence 6, Appli
41	149	4.4	151	3	US-09-071-710-13	Sequence 13, Appl
42	149	4.4	151	4	US-09-525-397-13	Sequence 13, Appl
43	97.4	2.9	1582	3	US-08-545-196B-10	Sequence 10, Appl
44	97.4	2.9	1582	4	US-08-545-196B-12	Sequence 12, Appl
45	94.6	2.8	2671	6	5168051-9	Patent No. 5168051

ALIGNMENTS

RESULT 1
US-09-020-956-110
; Sequence 110, Application us/09020956
; Patent No. 6261562
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillio, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND METHOD
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020,956
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.427C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3410 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; US-09-020-956-110

Query Match 100.0%; Score 3409.6; DB 4; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; SEQ ID NO 110									
; LENGTH: 3410									
; TYPE: DNA									
; ORGANISM: Homo sapien									
US-09-483-672A-l10									
Query Match 100.0%; Score 3409.6; DB 18; Length 3410;									
Best Local Similarity 100.08; Pred. No. 0;									
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QY	61	gtgatagacgtgtcccaactgagtgccccacagcagcaggtgttgagcattggcctga	120						
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QY	121	aaqctggaccggcaccacaaaggctggcagaaatggcgctggctgattccctaggcagt	180						
Db	121	aaqctggaccggcaccacaaaggctggcagaaatggcgctggctgattccctaggcagt	180						
QY	181	ggcggcagcaaggagagagccgcagcttctggagcagagccgagcagcaagcagttctg	240						
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QY	241	gagtgctgaacggccccctgagccctaccctgcccactatggtccacagagcctgtg	300						
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RESULT 15

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US-09-483-672A-110
; Sequence 110, Application US/09483672A
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Harlocker, Susan Louise
; APPLICANT: Jiang Yuqui
; APPLICANT: Reed, Steven G.
; APPLICANT: Kalos, Michael D.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Retter, Marc W.
; APPLICANT: Solk, John A.
; APPLICANT: Day, Craig H.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Wang, Aijun
; APPLICANT: Meagher, Madeleine
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; FILE REFERENCE: 210121 42711C11
; CURRENT APPLICATION NUMBER: US/09/483,672A
; CURRENT FILING DATE: 2000-01-14
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: FastSeq for Windows Version 3.0
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RESULT 13
 US-09-352-616A-110
 ; Sequence 110, Application US/09352616A
 ; GENERAL INFORMATION:
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Harlocker, Susan Louise
 ; APPLICANT: Jiang, Yuqui
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Mitcham, Jennifer Lynn
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
 ; FILE REFERENCE: 210121.427C8
 ; CURRENT APPLICATION NUMBER: US/09/352,616A
 ; CURRENT FILING DATE: 1999-07-13
 ; NUMBER OF SEQ ID NOS: 472
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 110
 ; LENGTH: 3410
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 US-09-352-616A-110

Query Match 100.08; Score 3409.6; DB 17; Length 3410;
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 QY 481 ctggtccgcctccctagcctcagccagtgaccactggcggtgagcctatggcgccgcg 540
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 QY 661 cctggcgtggggctgctgacttctgtggccaggtgtgcttcaactccactggagccct 720
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Db 2641 tgaactgttctgt 2700
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QY 3361 aa 3410
Db 3361 aa 3410

RESULT 12
US-09-346-327-100
; Sequence 100, Application US/09346327
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
; FILE REFERENCE: 210121.446C4
; CURRENT APPLICATION NUMBER: US/09/346,327
; CURRENT FILING DATE: 1999-07-02
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-346-327-100

Query Match 100.0%; Score 3409.6; DB 17; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 gggaaacacgctgcacgcgctgctcgggtgacagccgcgcctcggccagatctga 60
Db 1 gggaaacacgctgcacgcgctgctcgggtgacagccgcgcctcggccagatctga 60
QY 61 ggtatgagcgtgtccccaactgaggtgccccacagcagcaggtgttgagcatgggctgag 120
Db 61 ggtatgagcgtgtccccaactgaggtgccccacagcagcaggtgttgagcatgggctgag 120
QY 121 aagctggaccgcccacaaaggcgtggcagaataatggcgcctgctgattcctaggcagtt 180
Db 121 aagctggaccgcccacaaaggcgtggcagaataatggcgcctgctgattcctaggcagtt 180
QY 181 ggcggcagaagagagagagccgcagcttctgagcagagccgacagacagcagttctg 240
Db 181 ggcggcagaagagagagagccgcagcttctgagcagagccgacagacagcagttctg 240
QY 241 gagtgcctgaacggccccctgagccctacccgctggccactatggtccagagcgtg 300
Db 241 gagtgcctgaacggccccctgagccctacccgctggccactatggtccagagcgtg 300
QY 301 ggtgagccgctgctgcccacccggaagcccaagctcttctgctgggttcaacctgtaacctt 360
Db 301 ggtgagccgctgctgcccacccggaagcccaagctcttctgctgggttcaacctgtaacctt 360
QY 361 tggcctgaggtgtgtttggccagcagcatcacctatgtgccctctgctgtggaagt 420
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Db 421 gggggtagagagagaagtctcatgacctggtgctgggcatgtggtccagtgctggccctggt 480
QY 481 ctgtgtcccgctcctaggctcagccagtgaccactggctggacgctatgtggcgcgcgcg 540
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QY 541 gcccttcactgagcagctgttggccatctgctgagcctcttctctatcccaagggc 600
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QY 601 cggctggtcagcagggctgctgtgcccggatcccagccctggagctggcactgctcat 660
Db 601 cggctggtcagcagggctgctgtgcccggatcccagccctggagctggcactgctcat 660

[illegible]

Query Match	100.0%;	Score	3409.6;	DB	16;	Length	3410;	
Best Local Similarity	100.0%;	Pred. No.	0;					
Matches 3410;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
Qy	1	gggaaccagctgcacgcgctggctccgggtgacagccgcgcgcctccggccagatctga	60					
Db	1	gggaaccagctgcacgcctggtctcgggtgacagccgcgcgcctccggccagatctga	60					

QY 3301 aaattaaaggcttcttatatttttaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3360
 Db 3301 aaattaaaggcttcttatatttttaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa 3360
 QY 3361 aa 3410
 Db 3361 aa 3410

RESULT 10
 US-09-288-946-110
 ; Sequence 110, Application US/09288946
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu, Jiangchun
 ; APPLICANT: Dillon, Davin C.
 ; APPLICANT: Mitcham, Jennifer Lynn
 ; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
 ; FILE REFERENCE: 210121.427C7
 ; CURRENT APPLICATION NUMBER: US/09/288,946
 ; CURRENT FILING DATE: 1999-04-09
 ; NUMBER OF SEQ ID NOS: 381
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 110
 ; LENGTH: 3410
 ; TYPE: DNA
 ; ORGANISM: Homo sapien
 US-09-288-946-110

Query Match 100.0%; Score 3409.6; DB 16; Length 3410;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Db 1 gggaaacagctgcacgcgtgctccgggtgacagcgcgcgctcgccagagatctga 60
 QY 61 gtgatgagagtgctcccaactgagtgctcccaactgagtgctcccaactgagtgctcccaactgag 120
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 QY 361 tggcctgaggtgtgtttggcgcaaggatcacctatgtgcgctctgtgtggaagt 420
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 Db 421 gggggtagagagaagttcatgaccatgtgtgtggcattgtgtccagtgctgggctggt 480
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QY 601 cggctggctagcagggtgctgtgcccggatccccaggccctggagctggcactgctcat 660
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RESULT 8
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; Sequence 110, Application US/09232149A
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; TITLE OF INVENTION: CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232,149A
; CURRENT FILING DATE: 1999-01-15
; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-232-149A-110

Query Match 100.0%; Score 3409.6; DB 16; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps

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Db 1741 gggcatgctggacctcccatctccatctctgtagtgccttctcgtctccaggtggccc 1800
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Db 1921 cgacttgccaaatactcagctagaaactccagcacattgggtggaggccctgcct 1980
Qy 1981 cactgggtccagctcccgctcctgttagcccatggggctgcgggctggcgccagct 2040
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RESULT 7

US-09-232-149-110
; Sequence 110, Application US/09232149

GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Devin C.
; APPLICANT: Mitcham, Jennifer Lynn
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE
; FILE REFERENCE: 210121.427C6
; CURRENT APPLICATION NUMBER: US/09/232.149
; CURRENT FILING DATE: 1999-01-15

; NUMBER OF SEQ ID NOS: 338
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410

; TYPE: DNA
; ORGANISM: Homo sapien

US-09-232-149-110

Query Match 100.0%; Score 3409.6; DB 16; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;

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Db	3241	tagcgggggaattattttatacttaagttagtcagcaatcagagtataatttatggtgaca	3300
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Qy	3361	aaaaaaataraaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaa	3410
Db	3361	aaaaaaataraaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaa	3410

RESULT 6

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US-09-159-822-110
; Sequence 110, Application US/09159822B
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF
; PROSTATE CANCER AND METHODS FOR THEIR USE
; FILE REFERENCE: 210121.428C5
; CURRENT APPLICATION NUMBER: US/09/159,822B
; CURRENT FILING DATE: 1998-09-23
; NUMBER OF SEQ ID NOS: 306
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-159-822-110

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Query Match	100.0%	Score 3409.6;	DB 15;	Length 3410;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 3410;	Conservative	0;	Mismatches	0;
Indels	0;	Gaps		

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Db	1	gggaaccagcctgcacgcgctgctccgggtgacagccgcgcgcctcgccccaggatctga	60
QY	61	gtgatgagacgtgtccccactgaggtgtgccacagcagcagcaggtgtgtgacatggtgcctgag	120
Db	61	gtgatgagacgtgtccccactgaggtgtgcccaacagcagcagcaggtgtgtgacatggtgcctgag	120
QY	121	aagctggaccgcgcacaaagggtgtgcagaaaaatggcgccctggtctgatttcttaggcagtt	180
Db	121	aagctggaccgcgcacaaagggtgtgcagaaaatggcgccctggtctgatttcttaggcagtt	180
QY	181	ggcggcagcaaggagagagcgcgcagcttctggagcagacgcgacagcagcaggtcttg	240
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QY	301	ggtgagccgcctgctgcgcacgcgaaagccagctcttgctggtcaacctgtcaacct	360
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QY	421	gggggtgagaggagaattcatgacctggtgtgggcattgtgtccagtgctgggcctggt	480
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[illegible]

	Query Match	100.0%	Score	3409.6;	DB 15;	Length	3410;
	Best Local Similarity	100.0%;	Pred. No. 0;				
	Matches	3410;	Conservative	0;	Mismatches	0;	Gaps
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Qy	181	ggcggcagcaaggagagagggccgcagctctggagcagagccgcagagaagcagttctg	240				
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Qy	241	gagtgccctgaacggccccctgagccctaccgcctggcccactatggtccacagagctgtg	300				
Db	241	gagtgccctgaacggccccctgagccctaccgcctggcccactatggtccacagagctgtg	300				
Qy	301	ggtgagcgcctgtgcggcaccgaaagccacgctcttgcctgggtccaacctgctaaccct	360				
Db	301	ggtgagcgcctgtgtgcggcaccgaaagccacgctcttgcctgggtccaacctgctaaccct	360				
Qy	361	tggcctgaggtgtgtttggccgcgaggcatcacctatgtgcgcgcctctgtctgctggaagt	420				
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; SEQ ID NO 110
; LENGTH: 3410
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-115-453-110

Query Match      100.0%; Score 3409.6; DB 15; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 3
US-09-115-453-110
; Sequence 110, Application US/09115453B
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY OF PROSTATE CANCER AND
; TITLE OF INVENTION: METHODS FOR THEIR USE
; FILE REFERENCE: 210121.427C4
; CURRENT APPLICATION NUMBER: US/09/115,453B
; CURRENT FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 228
; SOFTWARE: FastSeq for Windows Version 3.0

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Db 3361 AAA 3410

RESULT 2

US-09-030-606-110

; Sequence 110, Application US/09030606

; GENERAL INFORMATION:

; APPLICANT: Xu, Jiangchun

; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND METHODS

; NUMBER OF SEQUENCES: 224

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED AND BERRY LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue

; CITY: Seattle

; STATE: WA

; COUNTRY: USA

; ZIP: 98104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/030,606

; FILING DATE: 25-FEB-1998

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Mak1, David J.

; REGISTRATION NUMBER: 31,392

; REFERENCE/DOCKET NUMBER: 210121.428C3

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-4900

; TELEFAX: (206) 682-6031

; INFORMATION FOR SEQ ID NO: 110:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3410 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; ORIGINAL SOURCE:

; ORGANISM: Homo sapiens

; US-09-030-606-110

Query Match 100.0%; Score 3409.6; DB 14; Length 3410;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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ALIGNMENTS

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; Sequence 110, Application US/09020747
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; APPLICANT: Xu, Jiangchun
; APPLICANT: Dillin, Davin C.
; TITLE OF INVENTION: COMPOUNDS FOR IMMUNODIAGNOSIS OF PROSTATE CANCER AND METHODS
; NUMBER OF SEQUENCES: 178
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/020,747
; FILING DATE: 09-FEB-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.428C2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
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; ORGANISM: Homo sapiens
; US-09-020-747-110

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GenCore version 4.5
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JOURNAL Genome Res. 9 (12), 1198-1203 (1999)
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        /clone_lib="Homo sapiens prostate adult"
        /tissue_type="prostate"
        /dev_stage="adult"
        /note="multiple clone assembly from multiple libraries and
        donors"
BASE COUNT 57 a 179 c 141 g 105 t
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Query Match 13.6%; Score 462.6; DB 9; Length 482;
Best Local Similarity 99.0%; Pred. No. 3.6e-37;
Matches 476; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
Qy 666 gcgagggtctgagcttctgt-ggccaggtgtgttcactcactcagagagccctgctc 724
Db 2 GCGTGGGCTCTGAGACTTCTGTGGGCCAGGTGTCTCACTCACTGAGGCCCTGCTC 61
Qy 725 tctgacctcttcgggagcccgagacactgtcgccaggcctactctgtctatgcttc 784
Db 62 TCTGACCTCTTCGGGACCCCGACACACTGTGCCAGGCTACTCTGTATGCTTCATG 121
Qy 785 atcagctctggggctgctgggtacctctgctgctgctgctgctgctgctgctgctg 844
Db 122 ATTAGTCTPTGGGGCTGCTGGGTACTACCTCTGCTGCTGCTGCTGCTGCTGCTGCT 181
Qy 845 ctggccctcactcctgggacccagagaggtgctctcttggcctgctcactcctatctc 904
Db 182 CTGGCCCTCTACCTGGGACCCAGGAGAGTGCCTCTTTGGCTGCTCACTCACTCTC 241
Qy 905 ctcacctgcttagcagcccaactgctggtggtgagtgagggcagcgtggtggccacag 964
Db 242 CTCACCTGCTGAGAGCCACACTGCTGTGTGCTGAGGAGGAGGCTGGGCCCCACCG 301
Qy 965 ccagcagaaggctgtcgccccctctctgtcgccccactgctgtccatgcgggcccgc 1024
Db 302 CCACGAGNAGGCTGTGGGCCCTCTCTTGTGCCCCCACTGCTGTCCATGCGGGCCGC 361
Qy 1025 ttggctttccggaaacctggggccctgctgtcccgagctgaccagctgtgctgcgc 1084
Db 362 TTGGCTTTCCGGAACCTTGGGGCCCTGCTTCCCGGCTGACACAGCTGTGTCGCGATG 421
Qy 1085 cccgcacctgcccggctcttctggtgagctgtgctgagctgagctgagctgagctg 1144
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Qy 1145 t 1145
Db 482 T 482

RESULT 15
BG173136
LOCUS BG173136 969 bp mRNA linear EST 06-FEB-2001
DEFINITION 602335411F1 NCI_CGAP_Maml Mus musculus cDNA clone IMAGE:4458602 5',
        mRNA sequence.
ACCESSION BG173136
VERSION BG173136.1 GI:12679748
KEYWORDS EST.

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SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE 1 (bases 1 to 969)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
        Contact: Robert Strausberg, Ph.D.
        Email: cgapbs-r@mail.nih.gov
        Tissue Procurement: Gilbert Smith, Ph.D.
        CDNA Library Preparation: Life Technologies, Inc.
        CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
        DNA Sequencing by: Incyte Genomics, Inc.
        Clone Distribution: MGC clone distribution information can be
        found through the I.M.A.G.E. Consortium/LLNL at:
        http://image.llnl.gov
        Plate: LLAM10257 Row: e Column: 03
        High quality sequence stop: 608.
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            /clone="IMAGE:4458602"
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            /dev_stage="10 months, virgin"
            /lab_host="DH10B"
            /note="Organ: mammary; Vector: pCMV-SPORT6; Site_1: SalI;
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            Library constructed by Life Technologies. Investigator
            providing samples: Gilbert Smith, NIH"
BASE COUNT 199 a 289 c 287 g 194 t
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Best Local Similarity 82.9%; Pred. No. 6.3e-37;
Matches 583; Conservative 0; Mismatches 115; Indels 5; Gaps 5;
Qy 839 agtgccttggcccttacctggtggccacccagagagtgctcttggcctgctcaccctc 898
Db 1 AGCGTTCTGGCCCCCTACTCTGGGTACTCAGGAGAGTGCCTTTGGCTCTCCTACCCCTC 60
Qy 899 atcttctcactcgtgtagcagccacactgctggtggtgagggagcgcgtgggcccc 958
Db 61 ATTTTCTCTATCTGCATGGCAGCCACTCTGTGTTGTGACGAGGAGGAGTACTTGGCCCA 120
Qy 959 accagccagcagaaggctgtcgccccctctgtcgccccactgctgtccatgcccgc 1018
Db 121 CCCGAGCCGCGAGAGGCTTGTGTGCTCTGCGCTGTGCGCCGATGCTGCCCATGCCAC 180
Qy 1019 gccgcgttggctttccggaacctggggccctgcttccccggctgcacagctgtgctgc 1078
Db 181 GTTGGCTTGGCTTTCCGGAATCTGGGTACCTGTTTCCCGCTCAGCAGCTGTGCTGC 240
Qy 1079 cgcagccccgcacctcgcgcgctcttctggtgagctgctgagctgagctgagctg 1138
Db 241 CGCATGCTCGCACCTACCGCCGACTCTTTGTGCTGAGCTGTGCAGTGGATGGCACTT 300
Qy 1139 atgaccttcacgtgttttacacggattcgtggcgagggtgctgtacaggcgctgc 1198
Db 301 ATGACTTTCACACTGTCTACCGACTTCTGGGAGAGGGCTGTACCA-GGTGTACCC 359
Qy 1199 agagctgagccgggacccgagggccggagacactatgatgaagcgcttcgagtgagc 1258
Db 360 AGAGCCGAGCCAGGCACCGAGG-CCGGAGACACTATGATGAAGGCATTCGAATGGGCAGC 418
Qy 1259 ctgggggtgttctcgcagtgagcccatctccctggtcttctctctctggtatgagcggctg 1318
Db 419 CTGGGGCTCTTCTCCTGCAGTGTGCCACTCTCCCTGCTCTTCTCCCTGGTCTATGGACAGGCTG 478

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Db 361 GGGCCACCGAGCGCGCAGAGAGGTGTGTGGTCTCTGCGCGTGTGCGCGCGATGCTGCC 420
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Db 421 ATGCCAGTTGGCTGGCTTTCGGGAATCTGGGTACCTCTTTCGCCGGGTGCGAGCACT 480
QY 1072 gtgctgcgcatgcccgccaccctgcgcggctctcttgctggtgagctgtgcagctggat 1131
Db 481 GTGCTGCCGATGCTCGCACCCCTACGCCACTCTTTGTGGCTGAGCTGTGCGAGCTGGAT 540
QY 1132 ggcactcatgacctcaagctgttttacacgagatttcgtggcgaggggtgtaccagg 1191
Db 541 GGACATTATGACTTTCACACTGTCTTACACGGACTTCGTGGGAGGGGTGTAAACAGG 600
QY 1192 cgtgccagagctgagcggcgaccgagcccgagagacacatgatgaagcgctcgga- 1250
Db 601 TGTACCAGAGCGAGCGACGACCGAGCGCGGAGACACATATGATGAAGGCATTGGA 660
QY 1251 -tgggagcctggggc 1265
Db 661 TGGGGCAGCCTGGGGC 676

RESULT 13
BI650119 901 bp mRNA linear EST 12-SEP-2001
LOCUS 603296208F1 NTH_CGAP_Mam3 Mus musculus cDNA clone IMAGE:5337073 5',
DEFINITION mRNA sequence.
ACCESSION BI650119
VERSION BI650119.1 GI:15564355
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 901)
TITLE NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs@mail.nih.gov
Tissue Procurement: Lothar Hennighausen Ph.D., Chu-Xia Deng Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM1855 row: p column: 02
High quality sequence stop: 778.
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Location/Qualifiers
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/db_xref="taxon:10090"
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/tissue_type="tumor, gross tissue"
/lab_host="DH10B"
/note="Organ: mammary; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo df.
Average insert 2 kb. Library constructed by Life
Technologies, catalog #12017-018. Investigators providing
samples: Lothar Hennighausen/Chu-Xia Deng, NIH Reference
for transgenic model: Xu et al., Nature Genetics 22, 37-43
(1999). Note: this is a NCI_CGAP Library."
BASE COUNT 151 a 260 c 288 g 202 t
ORIGIN

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Query Match 13.6%; Score 463; DB 10; Length 901;
 Best Local Similarity 78.5%; Pred. No. 2.6e-37;
 Matches 684; Conservative 0; Mismatches 165; Indels 22; Gaps 10;

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QY 1 gggaaaccagctgcacagcgctggctccgggtgacagccgcgccctcgccagagatctga 60
Db 42 GTGTCCGAGTCTGCACGCGCAGCCAGCCAGGTGACAGCGCAGCC- GGGCCAGGATCTGA 100
QY 61 gtaatgaagctgtcccaactgaggt--gccccacagcagcaggtgttagcatggct 117
Db 101 CCGACGAGATGTGTCCCACTCAAGCAAGCACTAGATGGTGAGTGTTTAGCGTGGGAC 160
QY 118 gagaagctgacccgycaccaaagggtggcagaaattggcgccctggctgattcttaggca 177
Db 161 GAGATGCTGAATTGGCACTTAAGGGCTGGCAGAAATGGGAACCTGGCTGCACCCCTAGGAG 220
QY 178 gttggcgccgcaagagagagagcgagctctctggagcagagccgagcagagcaggt 237
Db 221 GTTAGTGCTAGTAGGAGGAGGAGAACCCAC-----GGCAGGGCTCACTCAAGAGCT 271
QY 238 ctgagtgacctgaacggccccctgagccctaccgcccctggcccaactatggtccagaggt 297
Db 272 GTGAGTATGTGAGTAGCCCTGGAAACCTTACCTGCCTGTCCATCATGATCCAGAGGCT 331
QY 298 gtgggtgagccgctgtgcgcccggcggaaagccccagctctctgtgtaacctgtctaac 357
Db 332 GTGGCCAGCCGCTGCTACGCGCACCGGAAAGCTCAGCTCCTGCTGCTCAACCTGCTCAC 391
QY 358 ctttgccctgagaggtgtgtttggccgagcagcaccatcatgtccgctctgtctgga 417
Db 392 CTTTGGCCTGGAGGTGTGCTGCTGCCGCACTTACCTATGTGCCACCCCTCTGCTGGA 451
QY 418 agtggggtagagagagaagttcatgacctgtgtgtggcattggctcagtgctggcct 477
Db 452 AGTCGGGTGGAGGAGAAATTCATGACCATGGTGTGGGCATTGGCCCACTGTAGGCT 511
QY 478 ggtctgtccccctctcctagctcagccagtcagccagtcagccagtcagccagtcagccag 537
Db 512 GGTCTGTGTTCCACTCCTAGGCTCAGCCAGTACCACTAGTGGCGTGGCGCTATGGCCCGCG 571
QY 538 ccggccctcatctggcactctcttggcctctctgagcctctctctctctctctctcccaag 597
Db 572 GACACCTTTATCTGGCTTTGTCCTGGGTGCTCTGCTAAGCCTCTTCTCATCCCGAG 631
QY 598 ggcgctggtgtagcaggggtgtgtgtgcccggatccccagccccctgagctggcactgtc 657
Db 632 GGCTGGCTGGCTGGCAGGACTGTGTACCCAGACATCAGGCCCTGGAGTTGGCCCTGCT 691
QY 658 catctggcggtgggctgtgactctgtgcccaggtgtgt--tcactccactggag 715
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QY 716 gcctgctctctga--cctcttcgggaccccgaccac-tgtcgccagggctactctgtc 772
Db 751 GCCTTACTCTCCGAACCTCTTCCGGGACCCAGACACTTGGCGCAAGGCTTCTCTGTC 810
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QY 831 ggaaca-ccagtgccctggccccctactgg 860
Db 871 GGGACACCCAGCGTTCTGGCCCCCTACTGGG 901

RESULT 14
AF109299 Homo sapiens prostate adult Homo sapiens linear EST 28-JAN-2000
LOCUS AF109299.1 GI:6782692
DEFINITION , mRNA sequence.
ACCESSION AF109299
VERSION AF109299.1
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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RESULT 12
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LOCUS	602353324F1	NIH_MGC_90 Homo sapiens cDNA clone IMAGE:4451572	5', linear EST 30-JAN-2001
DEFINITION		mRNA sequence.	
ACCESSION	BG122427		
VERSION	BG122427.1	GI:12615936	
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
AUTHORS	1 (bases 1 to 715)		
TITLE	NIH-MGC http://mgc.nci.nih.gov/ .		
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)		
COMMENT	Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cgabbs-f@mail.nih.gov Tissue Procurement: ATCC CDNA Library Preparation: Life Technologies, Inc. CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.llnl.gov Plate: L1AM10238 row: p column: 05 High quality sequence stop: 689. Location/Qualifiers 1. 715 /organism="Homo sapiens" /db_xref="taxon:9606" /clone="IMAGE:4451572" /clone_lib="NIH_MGC_90" /tissue_type="adenocarcinoma, cell line" /lab_host="DH10B (phage-resistant)" /note="Organ: liver; Vector: pCMV-SPORT6; Site_1: NotI; Site_2: SalI; Cloned unidirectionally; oligo-dT primed. Average insert size 1.7 kb. Library enriched for full-length clones and constructed by Life Technologies. Note: this is a NIH_MGC Library." BASE COUNT 176 a 174 c 175 g 190 t ORIGIN		
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Db	1	GAAAGGGTCCATGCACCTGGAAATGCGGGGATCTCGACGTGGATTACCCAGCTCAGGGTT	60
QY	2271	aacagctagcctcctagttagacacacctagagaagggttttggagctggaataaac	2330
Db	61	AACAGCTAGCCTCCTAGTTGGAGACACACCTAGAGAAAGG-TTTTGGGAGCTGATAAACT	119
QY	2331	cagtcacctgtttcccatctctaaagcccttaacctgcagcttcgtttaatgtagctct	2390
Db	120	CAGTCACCTGGTTTCCCATCTCTTAAGCCCTTAACCTGCAGCTTCGTTTAATGTAGTCT	179
QY	2391	tgcattggagttctagatgaacacctctccatggattgacaatatg-actattt	2449
Db	180	TGCATGGGAGTTTCTAGATGAACACTCTCTCCATGGATTGAACATATGAAGTATT	239
QY	2450	gtaggggaagagctctctgaggggcaacacaaagaaccagggtccctcagccccacagcact	2509

D	B	240	GTAGGGGAAGAGTCTCAGGGGCAACACACAGAACAGGTGCCCTCAG-CCACAGCACT	298
Q	Y	2510	gtcttttggtagaccaccccccttaccttttatcagatgtgacctgttgcttc	2569
D	B	299	GTC-TTTTGCTGATCCACC CCCCTTACCTTTTATCAGGATGTGCCTG-TGGTCCTTC	356
Q	Y	2570	tgttgccatcacagagacaaggcatttaataatttaactatttattaacaagaftaga	2629
D	B	357	TGTTGCCATCACAGAGACACAGGCATTAAATAATTTAATTTATTTACAAGAFTAGA	416
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D	B	417	AGGAATCCATTGCTACTTTACTGTGGGTGCTTAATATTAGGGTAGGGCTGGGGAT	476
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D	B	477	CCCCAACAAATCAGTCCCCTGAGATAGTGTGCTAATTCGCTGATCATTTGCCAGAAATCTTT	536
Q	Y	2748	cttctctggggctggcccccaaaaatgcctaaccacagaccttgaaaattctactcat	2807
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Q	Y	2808	cccaaatgataattcccaaatgctgtttaccacaggttagtgttgtaaaggaggttagaggg	2867
D	B	594	GCCAATGATAATTCCAAATGCTCTTACC--AAGGTAGGGTGTGAAGGAAGGTAGAGGG	651
Q	Y	2868	tggggcttcaggctcacaaggcttccttaaccacccccctctctet	2910
D	B	652	GGGGCTTCAGGGTCTCAACGG--TACCTAACCCCTCTCTTCT	692
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RESULT 11				
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LOCUS	BG864609 872 bp mRNA linear EST 29-MAY-2001			
DEFINITION	602798469F1 NIH_CGAP_Mam4 Mus musculus cDNA clone IMAGE:4919513 5'; mRNA sequence.			
ACCESSION	BG864609			
VERSION	BG864609.1 GI:14215147			
KEYWORDS	EST.			
SOURCE	house mouse.			
ORGANISM	Mus musculus			
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.			
AUTHORS	NTH-MGC http://mgc.nci.nih.gov/.			
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)			
JOURNAL	Unpublished (1999)			
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgapbs-re@mail.nih.gov Tissue Procurement: Lothar Hennighausen Ph.D., Priscilla Furth Ph.D. cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LHAM10834 row: i column: 18 High quality sequence stop: 738.			

FEATURES
SOURCE

1. 872

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/lab_host="DH10B"
/note="organ: mammary; Vector: pCMV-SPORT6; Site_1: NotI;
Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt.
Average insert 2.5 kb. Library constructed by Life
Technologies, catalog # 12018-016. Investigators providing
samples: Lothar Hennighausen/Priscilla Furch, NIH
Reference for transgenic model: Li et al., CellGrowth and
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Db 793 AGTGGCTTACCAGGTTCACTTTCTCGGCTTGAAGATGTCGCTTTAAAGGTGGC 848
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LOCUS 602354010F1 NCI_CGAP_Mam1 Mus musculus cDNA clone IMAGE:4482362 5',
DEFINITION mRNA sequence.
ACCESSION BG242597
VERSION BG242597.1 GI:12752412
KEYWORDS EST,
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 1116)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Gilbert Smith, Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM10319 row: c column: 03
High quality sequence stop: 666.
Location/Qualifiers
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/tissue_type="tumor, biopsy sample"
/dev_stage="10 months, virgin"
/lab_host="DH10B"
/note="organ: mammary; Vector: pCMV-SPORT6; Site_1: SalI;
Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT.
Library constructed by Life Technologies. Investigator
providing samples: Gilbert Smith, NIH"
BASE COUNT 209 a 349 c 314 g 244 t
ORIGIN
Query Match 15.9%; Score 543.4; DB 10; Length 1116;
Best Local Similarity 84.8%; Pred. No. 2.8e-45;
Matches 644; Conservative 0; Mismatches 111; Indels 4; Gaps 3;
QY 1023 gcttggttcgcgaacctggcgccctctcccgctgcacagctgtgctgcgca 1082
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Db 9 GCTTGGCTTTCGGATCTGGGTACCTCTTCCCGGCTGCAGAGCTGCTGCCGA 68
|||||
QY 1083 tgcccgccacctggcgccgctcttctgtgctgagctgtgcagctggatggcactcatga 1142
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Db 69 TGCTCGCACCCCTACCGACACTCTTGTGGCTGAGCTGTGCAGCTGGATGGCACTATGA 128
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QY 1143 ccttcaacgtgttttacacggatttcgtggcgagggtgtaccaggcgtgccagag 1202
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Db 129 CTTTACACTGTCTACACGGACTTCGTGGGAGAGGGGCTGTACCAGGGTGTACCAGAG 188
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QY 1203 ctgagccgggcccaggccggagacacatgatgaagcgcttcggatggggcagcctgg 1262
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Db 189 CCGAGCCAGCACCGGAGCCCGAGACACATGATGATGAGGCAATTCGAAATGGCAGCTGG 248
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QY 1263 ggcgtgtctcagtcgcgcacatctccctggtttctctctgtgtcatgtgacccggtggtgc 1322
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QY 1323 agcagattggcactgcagcagctctatttggccagtggtgacagcttccctctggtgcgcg 1382
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QY 1383 gtgcacatgcctgtccacagctgtggtggtgacagcttcacgcgcctccacccgggt 1442
|||||
Db 369 CTGCCACCTGCTGTCCACAGCGGTGTGTAGTGACACCTCAGCTGCCCTCACCGGT 428
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QY 1443 tcacctcttcagccctgcagatccttcgacctacacactgacctccctctaccacccggaga 1502
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Db 429 TCACCTTCTCGGCCCTTGCAGATCCTTGCCTTACACGCTGCCCTCCCTTACCACCGTGAGA 488
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QY 1503 agcaggtgttcctgcacaaataccaggggacactgaggtgctagcagtgaggacagcc 1562
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Db 489 AGCAGGTGTCTCTGCCCAATACCGAGGGGACCTGGAGGTAGCAGCGTGGAGCAGCC 548
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QY 1563 tgatacagactcttcgcccagcctaaagcctggaactccctccctaataagacacgtgg 1622
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Db 549 AGACAACACAGCTCTTGCAGGCCCCTAAGCCAGGAGCTCTCTTCCCAATGGACAGTGG 608
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Db 609 GCTCTGGCAACACGCGGATCCT--GGCCCTCCACTGCACCTCTGTGGGCTCTTGTGCTGG 666
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QY 1683 atgtctcgtacgtgt-gtgtgtggtgagccacccagagccaggtgttcggggcgg 1741
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Db 667 ATGTTTCCATGCGCAGTGGGTGGTGGTGGACCACTTGGGGCCCGGTTGTCCCGGCCGG 726
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RESULT 8
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DEFINITION mRNA sequence.
ACCESSION BG28841
VERSION BG28841.1 GI:14176428
KEYWORDS EST,
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 1035)
AUTHORS NIH-MGC http://mgi.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LCM1807 row: 1 column: 03
High quality sequence start: 3
High quality sequence stop: 602.
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Site_2: XhoI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the
following 5' adaptor: GGCACGAG(G). Size-selected >500bp"
FEATURES
source

```



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COMMENT      Contact: Robert Strausberg, Ph.D.  
              Email: cga@rs-remail.nih.gov  
              Tissue Procurement: ATCC  
              CDNA Library Preparation: Ling Hong/Rubin Laboratory  
              CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
              DNA Sequencing by: Incyte Genomics, Inc.  
              Clone distribution: MGC clone distribution information can be  
              found through the I.M.A.G.E. Consortium/LLNL at:  
              http://image.llnl.gov  
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                /lab_host="DH10B (phage-resistant)"  
                /note="Organ: uterus; Vector: pOTB7; Site_1: XhoI; Site_2:  
                EcoRI; cDNA made by oligo-dT priming. Directionally cloned  
                into EcoRI/XhoI sites using the following 5' adaptor:  
                GGCACGAG(G). Size-selected >500bp for average insert size  
                1.8kb. Library constructed by Ling Hong in the laboratory  
                of Gerald M. Rubin (University of California, Berkeley)  
                using ZAP-cDNA synthesis kit (Stratagene) and Superscript  
                II RT (Life Technologies). Note: this is a NIH_MGC  
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Best Local Similarity 92.9%; Pred. No. 2.8e-50;  
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DB 122 TAAAGCCTGGAGCTCCCTCCCTAATGACACAGCTGGGTGCTGGAGGAGTGGCTGCTCC 181  
  
QY 1648 acctcaccgcgctctgcggggcctctgcctgtgatgtctccgtacgtggtggtggg 1707  
DB 182 ACCTCCACCCGCGCTCTGCGGGGCCCTCTGCCTGTGATGTCTCCGTAGCTGTGTGGTGG 241  
  
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DB 361 GCTCAGCAGCTGTCTACTGCCCTATATGGTGTCTGCGCGAGGCTGGGTCTGGTGGCAT 420  
  
QY 1888 ttacttgtacacaggtagttattgacaagagagcacttggcccaatactcagcgtagaa 1947  
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DEFINITION mRNA sequence.  
ACCESSION BG469520  
VERSION BG469520.1 GI:13401795  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
  
REFERENCE 1 (bases 1 to 894)  
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.  
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)  
JOURNAL Unpublished (1999)  
COMMENT Contact: Robert Strausberg, Ph.D.  
Email: cga@rs-remail.nih.gov  
Tissue Procurement: ATCC  
CDNA Library Preparation: Ling Hong/Rubin Laboratory  
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)  
DNA Sequencing by: NIH Intramural Sequencing Center  
Clone distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LLNL at:  
http://image.llnl.gov  
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High quality sequence stop: 671.  
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  EcoRI; cDNA made by oligo-dT priming. Directionally  
  cloned into EcoRI/XhoI sites using the following 5'  
  adaptor: GGCACGAG(G). Size-selected >500bp for average  
  insert size 1.8kb. Library constructed by Ling Hong in  
  the laboratory of Gerald M. Rubin (University of  
  California, Berkeley) using ZAP-cDNA synthesis kit  
  (Stratagene) and Superscript II RT (Life Technologies)."  
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ORIGIN  
  
Query Match 17.4%; Score 593; DB 10; Length 894;  
Best Local Similarity 97.7%; Pred. No. 3.9e-50;  
Matches 644; Conservative 0; Mismatches 10; Indels 5; Gaps 4;  
  
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Db 1	TCTGGTCATGACCGCGCTGTGTGAGCGATTTCGGCACTCGAGCAGTCTATTGTGCCAGTGT	60			
Qy 1360	ggcagctttccctgtggtgcggtgccacatgcctgtcccacagtggtgcgtggtgac	1419			
Db 61	GGCAGCTTTCCTGTGCTGCGGTCGCCACATGCTGTGCCACAGTGTGGCGTGGTGAC	120			
Qy 1420	agctteagcgcgcctcacgggttcacctctcagccctcgagatcctcgccctcacact	1479			
Db 121	AGCTTCAGCGCGCCTCACCGGGTTCACCTTCTCAGCCTTCAGATCTTCGCTTCACACT	180			
Qy 1480	ggcctccctctacacggggagaagcagtgttcctgccaaataccgagggagcaactgg	1539			
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DEFINITION	002330626911.nh_MGC_40 Homo sapiens cDNA clone IMAGE1450197.3
ACCESSION	BF972601
VERSION	BF972601.1
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	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 (bases 1 to 850)
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/ .
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished (1999)

the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)"

BASE COUNT 120 a 331 c 296 g 199 t

ORIGIN

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Matches 862; Conservative 0; Mismatches 54; Indels 10; Gaps 7;

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Db 899 GCCGCTGGGCGCTGCTCTGACAGCGC 924

RESULT 2

LOCUS BG469487 800 bp mRNA linear EST 21-MAR-2001

DEFINITION 602532993F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:4660703 5', mRNA sequence.

ACCESSION BG469487

VERSION BG469487.1 GI:13401762

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 800)

AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)

COMMENT Unpublished (1999)

CONTACT: Robert Strausberg, Ph.D.

EMAIL: cgabbs-r@mail.nih.gov

TISSUE Procurement: ATCC

CDNA Library Preparation: Ling Hong/Rubin Laboratory

DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Plate: LUCM1458 row: i column: 24

High quality sequence stop: 741.

FEATURES

source

1..800

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/clone_lib="NIH_MGC_15"

/tissue_type="adenocarcinoma cell line"

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/note="Organ: colon; Vector: pOTB/; Site_1: XhoI; Site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)"

BASE COUNT 135 a 245 c 239 g 181 t

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Matches 744; Conservative 0; Mismatches 16; Indels 7; Gaps 6;

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QY 1798 cccatccctgtttatgggctccattgtccagctcagcagctctgctcactgctatatggt 1857
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Db 241 CCCATCCCTGTTATGGGCTCCCATTTGCCAGCTCAGCGAGTCTGTGCTACTGCTATATGTT 300
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GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 11, 2002, 22:07:28 ; Search time 2528.24 Seconds
(without alignments)
18204.212 Million cell updates/sec

Title: US-09-605-783a-110

Perfect score: 3410

Sequence: 1 gggaaaccagctgcacgcgc.....aaaaataaaaaaaaaa 3410

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues

Total number of hits satisfying chosen parameters: 27472414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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15: em_gss_pin:*
16: em_gss_vrt:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	749.6	22.0	946	10	BG469889
2	667.4	19.6	800	10	BG469487
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4	594.6	17.4	850	10	BF972601
5	593	17.4	894	10	BG469520
6	588	17.2	858	10	B1107873
7	543.4	15.9	1116	10	BG242597
8	538.2	15.8	1035	10	BG288841
9	534.8	15.7	589	10	BG469586
10	525	15.4	715	10	BG122427
11	508.6	14.9	872	10	BG864609
12	499.6	14.7	786	10	BG174399
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34	359.2	10.5	906	10	BF680993
35	353	10.4	370	9	AW135465
36	352.8	10.3	509	9	BB701488
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VERSION BG469889.1 GI:13402164
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SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 946)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: NIH Intramural Sequencing Center
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LCM1459 row: i column: 12
High quality sequence stop: 798.
Location/Qualifiers
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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4661075"
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/tissue_type="adenocarcinoma cell line"
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EcoRI; "Organ: colon; Vector: pOTB7; Site:1: XhoI; Site_2:
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
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FEATURES

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adaptor: GGACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
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;	PRIOR FILING DATE:	1998-04-22	;
;	PRIOR APPLICATION NUMBER:	60/082700	;
;	PRIOR FILING DATE:	1998-04-22	;
;	PRIOR APPLICATION NUMBER:	60/082797	;
;	PRIOR FILING DATE:	1998-04-22	;
;	PRIOR APPLICATION NUMBER:	60/082796	;
;	PRIOR FILING DATE:	1998-04-23	;
;	PRIOR APPLICATION NUMBER:	60/083336	;
;	PRIOR FILING DATE:	1998-04-27	;
;	PRIOR APPLICATION NUMBER:	60/083322	;
;	PRIOR FILING DATE:	1998-04-28	;
;	PRIOR APPLICATION NUMBER:	60/083392	;
;	PRIOR FILING DATE:	1998-04-29	;
;	PRIOR APPLICATION NUMBER:	60/083495	;
;	PRIOR FILING DATE:	1998-04-29	;
;	PRIOR APPLICATION NUMBER:	60/083496	;
;	PRIOR FILING DATE:	1998-04-29	;
;	PRIOR APPLICATION NUMBER:	60/083499	;
;	PRIOR FILING DATE:	1998-04-29	;
;	PRIOR APPLICATION NUMBER:	60/083545	;
;	PRIOR FILING DATE:	1998-04-29	;
;	PRIOR APPLICATION NUMBER:	60/083554	;
;	PRIOR FILING DATE:	1998-04-29	;
;	PRIOR APPLICATION NUMBER:	60/083558	;
;	PRIOR FILING DATE:	1998-04-29	;
;	PRIOR APPLICATION NUMBER:	60/083559	;
;	PRIOR FILING DATE:	1998-04-29	;
;	PRIOR APPLICATION NUMBER:	60/083500	;
;	PRIOR FILING DATE:	1998-04-29	;
;	PRIOR APPLICATION NUMBER:	60/083742	;
;	PRIOR FILING DATE:	1998-04-30	;
;	PRIOR APPLICATION NUMBER:	60/084366	;
;	PRIOR FILING DATE:	1998-05-05	;
;	PRIOR APPLICATION NUMBER:	60/084414	;
;	PRIOR FILING DATE:	1998-05-06	;
;	PRIOR APPLICATION NUMBER:	60/084441	;
;	PRIOR FILING DATE:	1998-05-06	;
;	PRIOR APPLICATION NUMBER:	60/084637	;
;	PRIOR FILING DATE:	1998-05-07	;
;	PRIOR APPLICATION NUMBER:	60/084639	;
;	PRIOR FILING DATE:	1998-05-07	;
;	PRIOR APPLICATION NUMBER:	60/084640	;
;	PRIOR FILING DATE:	1998-05-07	;
;	PRIOR APPLICATION NUMBER:	60/084598	;
;	PRIOR FILING DATE:	1998-05-07	;
;	PRIOR APPLICATION NUMBER:	60/084600	;
;	PRIOR FILING DATE:	1998-05-07	;
;	PRIOR APPLICATION NUMBER:	60/084627	;
;	PRIOR FILING DATE:	1998-05-07	;
;	PRIOR APPLICATION NUMBER:	60/085323	;
;	PRIOR FILING DATE:	1998-05-13	;
;	PRIOR APPLICATION NUMBER:	60/085582	;
;	PRIOR FILING DATE:	1998-05-15	;
;	PRIOR APPLICATION NUMBER:	60/085700	;
;	PRIOR FILING DATE:	1998-05-15	;
;	PRIOR APPLICATION NUMBER:	60/085689	;
;	PRIOR FILING DATE:	1998-05-15	;
;	PRIOR APPLICATION NUMBER:	60/085579	;
;	PRIOR FILING DATE:	1998-05-15	;
;	PRIOR APPLICATION NUMBER:	60/085580	;
;	PRIOR FILING DATE:	1998-05-15	;
;	PRIOR APPLICATION NUMBER:	60/085573	;
;	PRIOR FILING DATE:	1998-05-15	;
;	PRIOR APPLICATION NUMBER:	60/085704	;
;	PRIOR FILING DATE:	1998-05-15	;


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; TYPE: DNA
; ORGANISM: Zea mays
US-10-155-881-3173

Query Match      2.8%; Score 95; DB 6; Length 580;
Best Local Similarity 82.9%; Pred. No. 0.018;
Matches 107; Conservative 1; Mismatches 21; Indels 0; Gaps 0;

QY 3282 tataatgtttatgttgacaaaattaaaggctttctttatgttttaaaaaaataaaa 3341
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 139 TAAAGTGTGGGTATAAAAAAAGGGGCTTTTCTTTTAAAAAAAATAAAAAA 80
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 3342 aaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaa 3401
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 79 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 20
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 3402 aaaaaaaa 3410
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 19 AAAAAACA 11

RESULT 10
US-10-144-132-27
; Sequence 27, Application US/10144132
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PT244C1N
; CURRENT APPLICATION NUMBER: US/10/144,132
; CURRENT FILING DATE: 2002-05-14
; NUMBER OF SEQ ID NOS: 113
; Prior Application removed - See File Wrapper or Palm
; Software: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 974
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (973)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (974)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-144-132-27

Query Match      2.8%; Score 94.8; DB 6; Length 974;
Best Local Similarity 68.6%; Pred. No. 0.018;
Matches 129; Conservative 1; Mismatches 58; Indels 0; Gaps 0;

QY 3223 aatgtcgtctattatttagcgggtgaataattttatcttaagtgcagcaatcagagt 3282
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 784 acctgcggaattatgttcagtgctgaaacttccatttattcagaatctgttc 843
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 3283 ataatgtttatgttgacaaaattaaaggctttctttatgttttaaaaaaataaaa 3342
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 844 atgttaaaagcctgtattaagaggaggtttttataatcttaaaaaaataaaaaa 903
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 3343 aaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaa 3402
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 904 aaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaa 963
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 3403 aaaaaaaa 3410
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 964 aaaaaaaa 971

RESULT 11
US-10-121-062-75
; Sequence 75, Application US/10121062
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C1
; CURRENT APPLICATION NUMBER: US/10/121,062
; CURRENT FILING DATE: 2002-04-12
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 75
; LENGTH: 4640
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-173-689-75

Query Match      2.8%; Score 94.6; DB 6; Length 4640;
Best Local Similarity 90.1%; Pred. No. 0.016;
Matches 100; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 3300 aaattaaaggctttctttatgttttaaaaaaataaaaaaataaaaaaataaaa 3359
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 4506 aaattaaaggctattgttcattgttttaaaaaaataaaaaaataaaaaaataaaa 4565
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

QY 3360 aaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaa 3410
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 4566 aaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaaaaataaaa 4616
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 12
US-10-173-689-75
; Sequence 75, Application US/10173689
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C10
; CURRENT APPLICATION NUMBER: US/10/173,689
; CURRENT FILING DATE: 2002-06-17
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 75
; LENGTH: 4640
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-173-689-75

Query Match      2.8%; Score 94.6; DB 6; Length 4640;
Best Local Similarity 90.1%; Pred. No. 0.016;
Matches 100; Conservative 1; Mismatches 10; Indels 0; Gaps 0;

QY 3300 aaattaaaggctttctttatgttttaaaaaaataaaaaaataaaaaaataaaa 3359
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Query Match 2.8%; Score 97; DB 6; Length 1952;
Best Local Similarity 83.2%; Pred. No. 0.0095;
Matches 109; Conservative 1; Mismatches 21; Indels

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US-10-155-881-3173/c
; Sequence 3173, Application US/10155881
; GENERAL INFORMATION:
; APPLICANT: Dotson, Stanton B.
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; APPLICANT: Lutfiyya, Linda L.
; APPLICANT: McIninch, James
; TITLE OF INVENTION: NUCLEIC ACID MOLE
; TITLE OF INVENTION: TRANSCRIPTION IN
; FILE REFERENCE: 38-21(15300)J
; CURRENT APPLICATION NUMBER: US/10/155
; CURRENT FILING DATE: 2002-05-22
; NUMBER OF SEQ ID NOS: 37595
; SEQ ID NO 3173
; LENGTH: 580

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; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: hu00165068
; NAME/KEY: unsure
; LOCATION: 203
; OTHER INFORMATION: a, t, c, g, or other
US-09-540-210B-19407

Query Match      8.1%; Score 275.6; DB 5; Length 283;
Best Local Similarity 98.2%; Pred. No. 5,9e-22;
Matches 278; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 2796 aattctactatccccaataataatcccaatgctgttaccacaagtttaggtgttgag 2855
      |||||||
Db 1 aattctactatccccaataataatcccaatgctgttaccacaagtttaggtgttgag 60
      |||||||

QY 2856 gaaggttagaggtggggttcagggtcgaaggttcctaccacccctctctctctg 2915
      |||||||
Db 61 gaaggttagaggtggggttcagggtcgaaggttcctaccacccctctctctctg 120
      |||||||

QY 2916 ccagcgtgttcccccacttccactccctctctctctctctcttaggactgggtgatgaa 2975
      |||||||
Db 121 ccagcgtgttcccccacttccactccctctctctctctctcttaggactgggtgatgaa 180
      |||||||

QY 2976 ggcactgcccataatttccctaccaccccaacttccctaccaccccaacttcccccacag 3035
      |||||||
Db 181 ggcactgcccataattgagccctngcccaacttccctaccaccccaacttcccccacag 240
      |||||||

QY 3036 ccccaaacctgtttgagctactgcaggaacgaagcaca 3078
      |||||||
Db 241 ccccaaacctgtttgagctactgcaggaacgaagcaca 283
      |||||||

RESULT 3
US-09-540-210B-29055
; Sequence 29055, Application US/09540210B
; GENERAL INFORMATION:
; APPLICANT: Seilhamer, Jeffrey J.
; APPLICANT: Delegeane, Angelo M.
; APPLICANT: Stuart, Susan G.
; APPLICANT: Stuve, Laura L.
; APPLICANT: Mullahy, Sara J.
; APPLICANT: Naughton, Rebecca E.
; TITLE OF INVENTION: POLYNUCLEOTIDES OF URINARY TRACT TISSUE
; FILE REFERENCE: PD-1037 CIP
; CURRENT APPLICATION NUMBER: US/09/540,210B
; CURRENT FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 08/972,899
; PRIOR FILING DATE: November 18, 1997
; PRIOR APPLICATION NUMBER: 08/395,244
; PRIOR FILING DATE: February 27, 1995
; PRIOR APPLICATION NUMBER: 08/722,922
; PRIOR FILING DATE: September 27, 1996
; PRIOR APPLICATION NUMBER: 60/005,526
; PRIOR FILING DATE: September 29, 1995
; PRIOR APPLICATION NUMBER: 08/824,029
; PRIOR FILING DATE: March 25, 1997
; PRIOR APPLICATION NUMBER: 60/014,010
; PRIOR FILING DATE: March 25, 1996
; PRIOR APPLICATION NUMBER: 08/826,847
; PRIOR FILING DATE: April 10, 1997
; PRIOR APPLICATION NUMBER: 60/015,533
; PRIOR FILING DATE: April 10, 1996
; PRIOR APPLICATION NUMBER: 08/903,555
; PRIOR FILING DATE: July 31, 1997
; PRIOR APPLICATION NUMBER: 60/023,308
; PRIOR FILING DATE: July 31, 1996
; PRIOR APPLICATION NUMBER: 08/862,178
; PRIOR FILING DATE: May 22, 1997
; PRIOR APPLICATION NUMBER: 60/018,217
; PRIOR FILING DATE: May 23, 1996
; PRIOR APPLICATION NUMBER: 08/881,589
; PRIOR FILING DATE: June 24, 1997
; PRIOR APPLICATION NUMBER: 60/021,275
; PRIOR FILING DATE: June 25, 1996
; PRIOR APPLICATION NUMBER: 08/903,802
; PRIOR FILING DATE: July 31, 1997
; PRIOR APPLICATION NUMBER: 60/023,308
; PRIOR FILING DATE: July 31, 1996
; PRIOR APPLICATION NUMBER: 08/905,881
; PRIOR FILING DATE: August 1, 1997
; PRIOR APPLICATION NUMBER: 60/025,204
; PRIOR FILING DATE: August 1, 1996
; PRIOR APPLICATION NUMBER: 08/903,471
; PRIOR FILING DATE: July 30, 1997
; PRIOR APPLICATION NUMBER: 60/025,478
; PRIOR FILING DATE: July 31, 1996
; PRIOR APPLICATION NUMBER: 08/903,556
; PRIOR FILING DATE: July 31, 1997
; PRIOR APPLICATION NUMBER: 60/025,217
; PRIOR FILING DATE: August 22, 1996
; PRIOR APPLICATION NUMBER: 08/937,142
; PRIOR FILING DATE: September 23, 1997
; PRIOR APPLICATION NUMBER: 60/026,598
; PRIOR FILING DATE: September 24, 1996
; PRIOR APPLICATION NUMBER: 08/960,746
; PRIOR FILING DATE: October 29, 1997
; PRIOR APPLICATION NUMBER: 60/030,144
; PRIOR FILING DATE: October 30, 1996
; PRIOR APPLICATION NUMBER: 08/826,847
; PRIOR FILING DATE: April 10, 1997
; PRIOR APPLICATION NUMBER: 60/015,533
; PRIOR FILING DATE: April 10, 1996
; PRIOR APPLICATION NUMBER: 08/755,524
; PRIOR FILING DATE: November 22, 1996
; PRIOR APPLICATION NUMBER: 60/007,495
; PRIOR FILING DATE: November 22, 1995
; PRIOR APPLICATION NUMBER: 09/021,031
; PRIOR FILING DATE: February 10, 1998
; PRIOR APPLICATION NUMBER: 60/039,325
; PRIOR FILING DATE: February 13, 1997
; PRIOR APPLICATION NUMBER: 09/035,172
; PRIOR FILING DATE: March 4, 1998
; PRIOR APPLICATION NUMBER: 60/040,431
; PRIOR FILING DATE: March 5, 1997
; PRIOR APPLICATION NUMBER: 09/041,894
; PRIOR FILING DATE: March 12, 1998
; PRIOR APPLICATION NUMBER: 60/040,199
; PRIOR FILING DATE: March 14, 1997
; PRIOR APPLICATION NUMBER: 09/050,817
; PRIOR FILING DATE: March 30, 1998
; PRIOR APPLICATION NUMBER: 60/043,792
; PRIOR FILING DATE: April 11, 1997
; PRIOR APPLICATION NUMBER: 09/074,999
; PRIOR FILING DATE: May 8, 1998
; PRIOR APPLICATION NUMBER: 60/048,431
; PRIOR FILING DATE: May 29, 1997
; PRIOR APPLICATION NUMBER: 09/107,592
; PRIOR FILING DATE: June 30, 1998
; PRIOR APPLICATION NUMBER: 60/052,751
; PRIOR FILING DATE: July 1, 1997
; PRIOR APPLICATION NUMBER: 09/094,079
; PRIOR FILING DATE: June 9, 1998
; PRIOR APPLICATION NUMBER: 60/049,975
; PRIOR FILING DATE: June 13, 1997
; NUMBER OF SEQ ID NOS: 35654
; SOFTWARE: PERL Program
; SEQ ID NO 29055
; LENGTH: 236
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No: hu00029498
; NAME/KEY: unsure
; LOCATION: 15

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